Getting to the bottom of lakeshore erosion

Also in this issue:
- Research facility goes online
- Preventing workplace injuries
- Chasing monarchs
Dear Friends:

On May 11, we did something that has never before been done in the history of this wonderful institution. We closed our freshman admissions for the fall semester.

At the time, we had received more than 15,000 applications from prospective freshmen. That represented an increase of more than 20 percent over last fall's record numbers.

This is just another indication that the word is getting out about WMU. We are being recognized as one of the finest institutions—not just in Michigan, but in the country. There are many reasons why prospective students and others are increasingly aware of what we have to offer.

We must start by recognizing the outstanding work of our admission and orientation staff members. Without their dedication to this University and commitment to providing superior service to prospective students, I am absolutely convinced that we would not be in this enviable position.

The advances in teaching and research made by our faculty and students also need to be applauded. Those accomplishments have caught the attention of many, including:

- U.S. News & World Report, which has ranked us among the top 147 public universities in the nation for nine consecutive years.
- The Carnegie Foundation for the Advancement of Teaching, which has recently acknowledged that our research activities place us in a select group of only about 90 public research universities in the nation.
- Institutional Research & Evaluation Inc., which has included us for the third consecutive year in its annual ranking of America's 100 Best College Buys.

Finally, we need to acknowledge a number of distinctions that our students bring to us, such as:

- The Sky Broncos precision flying team that finished first and third in the two most recent national competitions.
- The WMU sailing team, which was ranked among the top 20 in the nation, placing us in the company of Harvard, the Naval Academy and Stanford.
- The men's and women's tennis teams, both of which won Mid-American Conference championships and went on to compete in the NCAA tournament.

This is just a sample of the many exciting things that are going on at your alma mater. The pages of this magazine are filled with many more. I sincerely hope that you take pride in these many and varied accomplishments and in the degree you hold from this wonderful university!

Elson S. Floyd
President
What's happening on campus?
Planning a visit to Kalamazoo? Check the WMU News Web site for the latest information about campus events that you can attend. Calendar listings are currently available through April 2000 and are regularly updated at <www.wmich.edu/wmu/news/events/calendar1.html>.

FEATURES

On the cover
Battling shoreline erosion
Three years of research uncovers some underlying reasons for lakeshore losses.
COVER PHOTOGRAPH BY JOHN GILROY

Pushing for peak performance
University engineers bring high-tech tools to the war on workplace injuries.

Chasing monarch butterflies
An Oxford-educated biologist finds happiness in the Midwest's "milkweed belt."

Building upon science
The heart of the University's new research facilities, Haenicke Hall, goes online.

Sailing team makes 'top 20' list
Squaring off against the powerhouses in collegiate sailing, WMU sailors find success.

SECTIONS

University News
College News
Alumni News
Classnotes
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Athletic News
The College of Engineering and Applied Sciences is expanding in size and influence as the result of two initiatives approved by the Board of Trustees this past January. One initiative involves constructing new facilities on WMU's Lee Baker Farm property, located a few miles southwest of the main campus in Kalamazoo near U.S. 131. The other involves increasing the University's presence in Battle Creek, Mich.

In Kalamazoo, WMU will construct a new $50 million building to house the College of Engineering and Applied Sciences and a new paper and printing science teaching and research facility as well as develop a research park that is expected to attract dozens of private spin-off businesses.

In Battle Creek, the University will build a new manufacturing research center and laboratory and offer a new bachelor's program in manufacturing engineering in coordination with Kellogg Community College. As part of the initiative, the School of Aviation Sciences, located in the city since 1997, has been elevated to a College of Aviation.

President Elson S. Floyd said the two initiatives recognize the importance of Battle Creek and Kalamazoo. "I'm convinced that we must think regionally and make a concerted effort to collaboratively develop the I-94 corridor and permanently combine the resources and talents that our communities have in such abundance," Floyd said.

Dr. Elson S. Floyd, named this past August as WMU's sixth president, was inaugurated during ceremonies April 6 in Miller Auditorium.

The inauguration ceremony drew on the theme of "a presidency of vision, vigor and passion" and featured an address by Floyd entitled "Moving Forward Together: Listening to the Voices of the Community."

The president told a packed audience that WMU has made significant progress by building on a superb legacy. In the future, Floyd said he envisions WMU being recognized as one of the nation's premier student-centered research institutions.

As part of making that and other goals a reality, he said he will vigorously pursue improving the University's research capabilities and reputation as well as its legislative and private support.

Col. Daniel M. Litynski, professor and head of the Department of Electrical Engineering and Computer Science at the U.S. Military Academy since 1990, has been named dean of the College of Engineering and Applied Sciences. Litynski replaces Dr. Leonard Lamberson, who has returned to the faculty.

A seasoned educational leader, Litynski has a doctoral degree in physics and a research track record in the fields of laser and electro-optic research. He first joined West Point in 1974 and has taught physics and electrical engineering for the school as well as served as a research officer.

His career includes military service in Vietnam and Germany; work as a researcher with the USA Ballistic Research Laboratory; a military academic fellowship through which he studied international, national and industrial policy and operations; and service on a number of international advisory boards.

Joan H. Krause of Grand Rapids and George A. Franklin of Kalamazoo have been elected to one-year terms as chairperson and vice chairperson, respectively, of the 1999 Board of Trustees. Krause, B.A. '72, joined the board in 1993. She is co-owner of Krause & Neis, an interior design firm in Grand Rapids. She served for the past year as the board's vice chairperson and succeeds Lori B. Waddles of Oak Park as chairperson.

Franklin, who was appointed to the board in 1989, is an attorney and vice president for worldwide government affairs at the Kellogg Co. in Battle Creek, Mich.
First Truman Scholar named
Sara D. Woodward, a senior from Holland, Mich., majoring in political science, has been named WMU's first Truman Scholar. Woodward was one of 65 scholars selected to receive the award from among candidates nominated by colleges and universities around the nation.

The Truman Scholarship Foundation was established as a federal memorial to the nation's 33rd president. Its substantial scholarships help students attend graduate school in preparation for careers in government or elsewhere in public service.

WMU students have reached the finalist stage of the rigorous competition in each of the past three years.

Woodward, a member of the Lee Honors College, is planning to pursue a career in international relations. She has specialized in international and comparative politics, focusing on China and East Asia. She will complete a minor in Chinese language before graduating in April 2000 and will travel to China next year to complete her undergraduate studies at the Beijing Language and Culture Institute.

WMU cited for quality, value
For the third consecutive year, WMU has been named one of the 100 best college buys in the United States, according to Institutional Research Evaluation Inc. of Gainesville, Ga., a higher education consulting firm. The firm's list of best college buys includes schools that have a high academic ranking but a low annual cost.

The University was selected from more than 1,500 public and private institutions.

It was cited for surpassing the national average in all categories examined, including average freshman ACT score and average annual out-of-state cost of attendance.

Jackson named top scholar
Dr. William F. Jackson, professor of biological sciences, is WMU's 1998 Distinguished Faculty Scholar. The award is the University's highest honor for a faculty member.

Jackson, a faculty member since 1989, specializes in research on the body's microvascular system. His research has implications for treatment of heart attacks, stroke, hypertension and poor blood flow.

Two honored for service
WMU's 1998 Distinguished Service Awards have been presented to Griselda Daniel, B.S. '73, M.A. '80, director of diversity recruitment and retention and assistant to the dean of the Graduate College, and Dr. Shirley A. Van Hoeven, professor of communication and the Department of Communication's graduate program director and advisor for the past 20 years.

Daniel joined WMU in 1976 and was recognized for helping the University increase diversity among students, faculty and administrators. Van Hoeven joined WMU in 1970 and was recognized for contributions to her department, the University and the community at large.
For three years, a WMU geoscientist has been quietly chasing down the reason for Michigan's lakeshore losses.

During that time, Dr. Ronald Chase has been a quiet observer at tumultuous public meetings between federal, state and municipal officials and the legions of Michigan lakeshore property owners who are desperate to stop their lakeside homes and retreats from slipping beneath the rising levels and pounding waves of Michigan’s Great Lakes.

Now he's ready to have his say.

Chase, a WMU professor of geosciences and a longtime researcher on the topic of lakeshore erosion, has a message he wants to share—now that he's sure of the science behind it. The simple truth about lakeshore erosion, he says, is that what is going on inside a lakeshore bluff is as critical as what is attacking it externally.

Lakeshore property with the wrong combination of soil and groundwater will erode no matter what the level of lake water is or how severe the wave action. And along some stretches of Lake Michigan, as much as 50 percent of the shoreline is plagued by combinations of ground water and soil layers that make it vulnerable.

“The general public perceives erosion as something caused by high water levels and wave action,” Chase notes. “People get excited about it when the water level is up but forget about it when levels are down as they are this year. They’ve got it
backward. We need to look at ways to mitigate property loss when levels are low and prevention systems are easier to construct. Waves and water levels do have an impact but the layering characteristics of the soil and the presence of ground water is just as important.”

Chase and a team of colleagues are just completing a three-year study financed by the U.S. Army Research Office’s Terrestrial Sciences Program. The team includes Dr. Alan E. Kehew, chairperson of the Department of Geosciences, and four graduate students. Their primary mission was to conduct basic research that would reveal information about slope stability in hydrogenous glacial materials. The information was of interest to the Army for two reasons. One was the Army’s desire to develop information and technology that could be transferred to the Army Corps of Engineers for its work on shoreline erosion issues. The second was the Army’s need for practical information to apply when planning the use of heavy equipment along various types of terrain.

Working along an 11-mile stretch of Lake Michigan shoreline between South Haven and Saugatuck, Chase’s team installed monitoring wells and carefully documented bluff movement at six sites that varied according to soil composition and the presence of ground water. They found that sites with ground water present or “perched” within the bluff were far less stable than dry bluffs. When bluffs had perched ground water and were composed of lacustrine clay or layers of both sand and clay, there was significant erosion — even when the lake’s water levels and wave action were low.

Armed with the research of Chase and his team, state and municipal officials can predict the areas at greatest risk for erosion. Unstable land can be rejected as a possible development site. Building regulations can be altered to include ground water and soil composition as factors to be judged before building permits are issued.

“I can’t say I’ve ever done a research project in which I’ve had such confidence in the accuracy of the findings,” Chase says. “I wanted to be very sure of our data before joining the public debate and now we are very sure we know what is going on. We can prove it by what we’ve seen at our monitoring sites.”

What is it about ground water that presents such an erosion problem? The answer is deceptively simple. Water adds weight to the bluff. It’s almost like adding the weight of a building. And water builds up pressure between the individual grains of sand in the bluff, forcing them apart and making the subsurface unstable and prone to collapse.

Not only have WMU researchers seen the process firsthand at their monitoring sites, they’ve tracked the historical record of bluff erosion back to 1938 and correlated bluff geology and ground water records with areas of marked erosion through a process they call “hindcasting.” That data, developed by doctoral student William W. Montgomery, supports their conclusions as well.

The information has applicability in virtually all of the glacial midwest—for slopes eroding into valleys, highway cuts, open pit mining and any type of shoreline, Chase says.

“Professionally this has been very satisfying because it’s basic science,” he reports.

That basic science has been attracting professional recognition because of the new information amassed on the previously undocumented impact of lacustrine clay on the stability of glacial soil layers. The team’s information-gathering techniques, particularly its use of uniquely-designed displacement monitoring devices, also has piqued the interest of erosion specialists around the country. Along with the scientific and professional gratification, however, has come unusual interest by local newspapers and camera crews.

“That’s been kind of a bonus,” Chase notes.

But it’s a bonus that presents a problem. While homeowners are happy for any factual information about the problem, they’re far more interested in how to correct it. Although Chase’s team has a firmer grip on the problem, the solutions are still not clearly defined—except through the anecdotally successful actions of some enlightened homeowners who have crafted ways to mitigate the impact of ground water on their own little pieces of lakeshore.

Those actions range from refusing to water the lawn to building a system to divert rainwater runoff and some ground water directly into the lake. Such actions form the basis for what Chase and Kehew hope will be their next major research project—an attempt to repeatedly dewater and water an entire bluff system and...
monitor the geologic and erosion changes that result.

"If we're able to put this project together, it will be the first time it's ever been done in a Great Lakes glacial shoreline environment," Chase says. "We'll be looking at the process with a fine tooth comb. These tests would answer our remaining questions."

In the meantime, he's committed to sharing what he knows about lakeshore erosion with colleagues at professional conferences and with those who care most—lakeshore property owners. In April with the academic year behind him, Chase headed for his first official appearance at a public meeting sponsored by the Army Corps of Engineers in Zeeland. He knows it will be the first of many once word spreads that someone has a clear understanding of how and why erosion takes place.

"We plan to be very accessible," he says. "If people have questions, we'll make sure they get the information they need." •

STORY BY CHERYL ROLAND—CHERYL.ROLAND@WMICH.EDU
IMAGES BY JOHN GILROY AND RON CHASE

www.wmich.edu/cas/

There are no easy solutions, but these steps may help

What's a homeowner to do when the basement is headed for a dip in Lake Michigan or the backyard garden is in danger of having waves lapping at the tomato plants?

Shoreline erosion expert Dr. Ronald Chase says beach protection devices have been the most popular remedy for those losing their property to the lake. Those can include devices extending into the lake designed to trap sand as well as the more traditional beach-hardening measures accomplished by adding concrete structures, rocks, walls or tires.

"Any time you focus energy on protecting the beach, that's a short-term solution," Chase notes. His advice?

- Get a professional evaluation of the property. An engineering geologist or a civil engineer can evaluate property for the presence of water and for the composition and strength of the underlying soil. Costs can run from a simple on-site inspection that costs around $500 to as much as $10,000 for a thorough evaluation. That may sound like a lot, but for people contemplating an expensive purchase or building project, Chase says its something akin to a pre-purchase building inspection. It will save money in the long-run. For those trying to save an existing structure, the information gained will provide direction for efforts to mitigate erosion problems.

- Search well records. For those interested in a low-cost method of determining if there is ground water perched on their property, Chase recommends a search of county well records. While time consuming, a search of those public records can provide important clues that are based on well drillers' experiences in surrounding terrain. "If your bluff is 65 feet high and well records show your neighbor's well hit water at 30-35 feet, it's a safe bet your property has ground water at that level as well," Chase says.

- Remove as much water as possible. If ground water is a likely cause of your erosion problems, there are several simple steps that, although not proven remedies, have helped others. Those include: cutting back on watering the lawn and making sure septic systems are leak-free; diverting rainwater runoff from roof, gutters and downspouts away from the ground and directly into the lake; installing horizontal tile drainage in the face of the bluff to pull ground water from the soil and drain it away; and constructing a drain system that intercepts ground water flowing toward the bluff from inland.
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Western Michigan University
A 'mecca' for medievalists
For four days in May, people could find magic, talks about domestic violence and gender differences, monks, and a Friesian war horse all in one place during the 34th International Congress on Medieval Studies at WMU.

More than 2,700 scholars of the Middle Ages—the largest gathering of medievalists in the world—attended the event May 6-9. Sponsored by the Medieval Institute, the congress attracts participants from around the globe, including historians, art curators, military strategists and monks.

More than 1,600 papers were presented on all aspects of medieval life, literature, history and culture. Sessions encompassed an eclectic mix of topics ranging from art and music to architecture, money, the military, marriage and etiquette.

A love of Latin spurs meeting
More than 200 high school students visited campus on March 13 for the spring convention of the Michigan Junior Classical League.

The classics section of the University's Department of Foreign Languages and Literatures was host of the annual convention for young lovers of Latin. It was only the second time in the organization's history that its convention was held at WMU.

Sponsored by the American Classical League, the National Junior Classical League was established for junior and senior high school students to encourage an interest in and appreciation of the language, literature and culture of ancient Greece and Rome.

Historians get hooked on exhibit
A team of WMU historians is putting together a traveling exhibit that will explore the historic tale of fisheries management and regulation in Michigan.

"Fish for All: The Legacy of Lake Michigan Fisheries Policy and Management" examine state fisheries management from four viewpoints: federal and state governments; Native Americans; commercial and sport fishermen; and environmental groups.

The exhibit was funded by a $198,720 grant from the Great Lakes Fishery Trust, which is believed to be the largest grant awarded to scholars in the Department of History in 30 years. The exhibit is being compiled by a team from the Great Lakes Center for Maritime Studies, a partnership between WMU and the Michigan Maritime Museum in South Haven.

Dr. Michael J. Chiarappa, WMU assistant professor of history and Dr. Kristin Szylvian, WMU assistant professor of history and the museum's executive director, are leading the project.

Gospel music controversy explored for black history festival
The controversy surrounding gospel music's place in society, outside the hallowed walls of the church, was examined Feb. 19-20 on campus as part of Black History Month.

"Exposition IV: The 'Rap' on Contemporary Gospel," was presented in Dalton Center Recital Hall by WMU's Black Americana Studies Program and featured lectures by four experts in African American culture, music and gospel music. Performances by traditional and contemporary gospel music artists complemented the lectures.

Many gospel aficionados consider contemporary gospel music by such artists as Kirk Franklin and BeeBee and CeeCee Wynans to be sacrilegious, believing gospel is sacred and belongs in a house of worship, says Dr. Benjamin C. Wilson, professor of black Americana studies and festival coordinator.

"What they don't recognize is that contemporary gospel is designed to appeal to youth," Wilson says. "To get kids to church, you have to be able to hook them, and contemporary gospel is that tool."
College News

Haworth College of Business

Haworth College of Business has accreditation renewed
The graduate and undergraduate programs of the Haworth College of Business have had their accreditation renewed by the national accrediting agency for collegiate schools of business.

The board of directors of the American Assembly of Collegiate Schools of Business—The International Association for Management Education voted to renew WMU’s accreditation based on the recommendation of a five-member peer review team. The team spent several weeks reviewing materials provided by the school and visited the campus for four days in November.

“This is a very gratifying result,” says Dr. James W. Schmotter, dean of the college. “We’ve spent literally thousands of hours seeking the opinions of our external constituents, developing new curricula and changing the way we do things to ensure our students receive the very best business education possible. That a team of demanding external reviewers praised what we have done is a powerful confirmation that we’re on the right track.”

The Haworth College of Business joins only 352 of the nearly 1,200 U.S. colleges and universities offering business degrees that have achieved AACSB accreditation.

New business development center addresses needs of women
The Haworth College of Business has started a center designed to give women business owners a boost.

The Women’s Business Development Center provides support to women business owners and potential owners through low- or no-cost training, problem-solving consultation, up-to-date business information and support group opportunities.

The center was established in response to needs expressed by area businesswomen in a series of focus groups in November and January. Forty-two women from throughout Southwest Michigan worked with trained moderators to define the services and structure they want from such a center.

International Kandy to Kalamazoo college connection completed
After five years of effort and despite working around an ongoing civil war, the University has succeeded in developing its newest “twinning” program on the island nation of Sri Lanka.

The new program, Trinity-Western Michigan Institute of Higher Education, is WMU’s sixth twinning program in Asia. Beginning this summer, the program will let students complete the first two years of their WMU degree through Trinity College in the city of Kandy and then transfer to WMU to finish the remaining two years of their studies.

“This project demonstrates that patience is everything when it comes to developing an international partnership,” says Dr. Howard J. Dooley, executive director of international affairs at WMU. “We began discussing this five years ago and will now be able to offer educational opportunities that didn’t exist before.”

The Trinity-WMU program is modeled on WMU’s successful twinning program with Sunway College in Kuala Lumpur, Malaysia, and subsequent programs in Hong Kong and India. University officials recently visited sites for its twinning programs during a tour of Malaysia and India.

Food execs cook up conference
Food industry executives from around the Midwest converged on the WMU campus March 22 and 23 for the 34th annual Food Marketing Conference.

More than 500 retail food executives attended the event along with students, faculty and industry leaders. Four featured speakers addressed topics including building brands, customer loyalty and brand equity.

Another conference highlight included presenting the Adrian Trimpe Distinguished Service Award to Craig C. Sturken, chief executive officer and chairman of Midwest Operations for Great Atlantic & Pacific Tea Co. and president and CEO of Farmer Jack Supermarkets in Michigan. The award, named for the founder of WMU’s nationally known food marketing program, honored Sturken for his long history of supporting the education of future food industry leaders.
College of Education

Leadership Academy garners national honor, creativity award

A WMU program designed to address a shortage of qualified school administrators in Michigan has won a national Conferences and Professional Programs “Exemplary Program Award” from the University Continuing Education Association.

The program also earned a regional “Creative Program” award from UCEA.

The award-winning program, called “The Leadership Academy for Future Education Leaders,” was chosen based on its imaginative program design, unique and effective marketing, outstanding program management and quantifiable impact.

It consists of a two-and-a-half-day academy for classroom teachers who are considering moving into school administration. Sponsored by the WMU Department of Educational Leadership and Region VII of the Michigan Association of School Administrators, the conference was held in March 1998 at the Fetzer Center and was offered again in March 1999.

Departments merged, renamed in college reorganization

As part of a continuing redesign of the College of Education, two new departments have been established and officially named.

At its April 23 meeting, the Board of Trustees approved names for the two units, now called the Department of Educational Studies and the Department of Teaching, Learning and Leadership.

The Department of Educational Studies is composed of the former Department of Special Education plus the programs in educational foundations; measurement, research and evaluation; school psychology; and technology.

The Department of Teaching, Learning and Leadership encompasses the former Department of Education and Professional Development and the educational administration programs of the former Department of Educational Leadership.

The change in structure merges six academic departments into five. Other departments in the college are the Department of Counselor Education and Counseling Psychology; the Department of Family and Consumer Sciences; and the Department of Health, Physical Education and Recreation.

Graduate Family Life Education program wins certification

WMU has become the first university in Michigan to have a graduate program obtain a Provisional Certified Family Life Educator designation from the National Council on Family Relations.

The Department of Family and Consumer Sciences’ Concentration in Family Life Education program has been recognized as offering appropriate course work for each of 10 family life substance areas required for CFLE designation.

The designation means students will go through a much simpler process and spend less money to become certified by the NCFR, says Dr. Linda Dannison, chairperson of the Department of Family and Consumer Sciences.

“This designation is the result of two years of hard work,” Dannison says. “It’s very good news.”

Physical education expert honored by professional group

Dr. Jody A. Brylinsky, associate professor of health, physical education and recreation, received the 1999 Scholar Lecture Award from the Midwest District of the American Alliance for Health, Physical Education, Recreation and Dance.

The award ceremony took place Feb. 12 at the district’s convention in Huntington, W. Va. The award, presented to Brylinsky in recognition of her “excellent professional record of service and distinguished accomplishments,” included an opportunity to deliver a lecture at the convention.

Brylinsky, a WMU faculty member since 1991, also has been serving since last April as the president of the National Association of Sport and Physical Education. She has been active in recent months as a project director for the new Special Olympics Unified Sports Leagues, which are aimed at increasing athletes' participation in the games.

Dannison

Brylinsky

Phy

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Dannison

www.wmich.edu/coe/
First IPTC cadets ready to fly
The first cadets trained under year-old contracts between WMU's International Pilot Training Centre and Aer Lingus and British Airways have completed their studies at WMU and gone on to complete their final weeks of training in the United Kingdom.

Cadets, who had no flight experience before coming to WMU in 1998, will be serving soon as first officers on commercial passenger runs for their airlines. The cadets will fly as first officers with a training captain and another first officer sitting behind them in the cockpit during their initial flights, then will fly as first officers with a training captain before they assume normal duties.

Sunseeker team hits the road this summer to 'catch the rays'
An all new, more aerodynamic Sunseeker solar race car rolled off the student assembly line as WMU students prepared for the dawning of the June 20-29 Sunrayce 99.

Sunrayce, a biennial competition featuring entries from colleges and universities across the nation and Canada, is sponsored by General Motors, EDS and the U.S. Department of Energy. This year's race was slated to begin in Washington, D.C., and finish 10 days later at Epcot Center in Orlando.

WMU has had an entry named Sunseeker in each of the four previous races, held in 1990, 1993, 1995 and 1997. It is one of just seven schools in the nation that has competed in all five races.

Sky Broncos take third in national competition
For the eighth consecutive year, WMU's flight team, the Sky Broncos, finished among the top three schools in the nation at the National Intercollegiate Flying Association championship. WMU placed third overall in the 1999 competition April 27-May 1 at Kansas State University at Salina.

The 14-member team finished ahead of schools such as Ohio State University, the U.S. Air Force Academy and the University of Illinois. Embry Riddle-Prescott and the University of North Dakota came in first and second, respectively.

Last year, the Sky Broncos team captured its first national title since 1983

Seniors pick top faculty member
Graduating seniors in WMU's chapter of Theta Tau have selected Dr. Koorosh Naghshineh, associate professor of mechanical and aeronautical engineering, to receive the group's fifth annual Outstanding Faculty Award.

The award is presented each spring by the professional engineering fraternity to a faculty member who "presents engineering concepts clearly, provides extraordinary assistance, motivates students to excel and teaches with enthusiasm."

Printing students earn top honors for research efforts
WMU students carried off honors for both the top graduate paper and the top undergraduate paper awarded this spring by the Technical Association of the Graphic Arts.

Rodrigo Sosa, who received his master's degree in April in the University's new print imaging science graduate program, earned the nod for top graduate paper. Veronka Pekarovicova, a freshman in the printing program, took top undergraduate honors.

Both students presented their award-winning work at TAGA's international conference held May 1 in Vancouver, B.C.
College of Fine Arts

Artist from India visits WMU
Hanuman Kambli, a Fulbright Visiting Artist from Panaji, Goa, India, spent much of the winter and spring at WMU through the Department of Art.

Regarded as one of his country’s foremost printmakers, Kambli also is a painter. His work is gaining an international reputation and has been exhibited in Egypt, Brazil, Poland, Portugal, Japan, Cuba, Norway, England, Germany, Holland, Spain, Macedonia, Bulgaria, Slovenia and Taiwan.

While on campus, Kambli operated a studio, conducted workshops, made presentations and exhibited his work.

Graduating senior wins Fulbright Fellowship
WMU senior Christopher L. Totten has been awarded the prestigious Fulbright Postgraduate Student Fellowship for graduate studies in Australia.

Totten will use the award to study the influence of Asian theatre on the theatre of Australia. He plans to enroll in a master of arts program at either Queensland University of Technology or University of Queensland, while studying production research and training with the Zen Zen Zo Physical Theatre Company in Brisbane.

Totten also will spend time traveling throughout Australia and Asia to further his understanding of both cultures, specifically as they relate to theatre.

A Kalamazoo native, Totten has worked extensively as a director, designer and actor at the University Theatre, the Kalamazoo Civic Theatre and the Actors and Playwrights’ Initiative.

State’s top high school fine arts students gather at WMU
More than 1,000 of Michigan’s finest young artists gathered May 6-8 for the 37th annual Michigan Youth Arts Festival at WMU.

The festival honors the state’s high school students gifted in dance, drama, instrumental and vocal music, visual arts, creative writing, film, and video. It began in 1963 as a simple talent screening of young musicians, but has grown into a comprehensive arts spectacular, culminating a nine-month search for the best artistic talent in the state’s high schools.

More than 60,000 students across the state took part in the adjudication process, with more than 1,000 invited to participate in the three-day festival in which they share their talents with their peers and the public through performances and exhibitions.

This is the 15th year WMU has been host of the event.

‘Teacher of stars’ visits campus
David Howard, the dancer acclaimed as the “teacher of stars,” visited WMU in June to run the David Howard Summer Dance Intensive.

Howard is famous for coaching such luminaries as Gelsey Kirkland, Natalia Markarova, Mikhail Baryshnikov, Patrick Swayze and Mary Tyler Moore. He is the recipient of an honorary doctoral degree in dance from Oklahoma City University and for the past 10 years has been teaching workshops throughout the world, including Seattle, Tulsa, New York, Denmark, Japan, Switzerland, Venezuela and the 1998 International Ballet Competition in Jackson, Miss.
College News

College of Health and Human Services

$1.7 million grant to help reduce recidivism in prison parolees

The University's track record in providing substance abuse treatment services in Michigan prisons has led to a two-year, $1.7 million treatment and research project aimed at helping parolees avoid relapses to drug use after their release from prison.

The Michigan Department of Corrections awarded the grant to Dr. C. Dennis Simpson, director of WMU's Specialty Program in Alcohol and Drug Abuse and professor of community health services, and James H. Kendrick, assistant professor of community health services. The pair is directing a project that began in late 1998 that is providing intense, residential treatment services to up to 160 prisoners at MDOC's Cooper Street Correctional Facility in Jackson. They target prisoners within 12 to 18 months of parole eligibility for six months of intensive treatment in a separate treatment center on the prison grounds.

The project is a collaboration with Longford Health Source of Grand Rapids; Family Service & Children's Aid of Jackson; and Stryker and Endias, a research and evaluation firm in Kalamazoo. In addition to providing treatment services, the project will examine the effectiveness of the effort in reducing recidivism.

OT grant gets kids get off to good start in school careers

A model community-based education and training program that helps youngsters get off to a good start in school is expanding with the help of a $34,000 first-year planning grant to the WMU Department of Occupational Therapy.

The Occupational Therapy Health/Education Partnership currently is operated in Edison Elementary School in cooperation with the Edison School-based Health Center, Kalamazoo Public Schools and Family Health Center. WMU graduate students work with children from pre-kindergarten through third grade on fine and gross motor skills with hopes of improving academic performance.

The grant, made to University researchers from the U.S. Department of Health and Human Services' Health Resources and Services Administration, will be followed by second- and third-year grants from the agency for about $110,000 to start similar programs in other schools and possibly other districts.

The project is co-directed by Dr. Richard Cooper, associate professor, and Dr. Cindee Peterson, chairperson of the Department of Occupational Therapy.

Nursing school gets new name

WMU's community-based nursing school has a new name—the Bronson School of Nursing—but its innovative mission remains unchanged.

The Board of Trustees approved renaming the school at its April 23 meeting to recognize the longstanding relationship between the University and the Bronson Healthcare Group. The board also approved a second recommendation to accept the role of legal successor to Bronson's hospital-based nursing program in Kalamazoo, which ceased operations in 1998.

The Bronson/WMU relationship goes back more than 70 years when the first Bronson School of Nursing students enrolled in classes at WMU. More recently, Bronson has pledged some $5.25 million in support of WMU's School of Nursing. Of that total, $4 million has been pledged this fiscal year.

Writing under microscope in elementary outreach lab

WMU and Kalamazoo Public Schools are teaming up to give both elementary school students with special needs and their general education counterparts some help with their writing.

Called the Writing Lab Outreach Project, the initiative is backed by the U.S. Department of Education's Office of Special Education Programs, which awarded $142,235 to fund the project's first year. Subsequent grants of just under $150,000 will fund the second the third years of the three-year effort.

The project targets students with special needs in the first through third grades and uses computers to help them learn and practice writing. Those students practice writing alongside their general education peers, with both groups coming out ahead.

Dr. Nickola W. Nelson, professor of speech pathology and audiology, directs the project.
Students sample French culture

Nineteen students got a firsthand look at French culture during a recent trip to Paris thanks to a program offered through the Lee Honors College.

The trip, always the first week of February, complements WMU's foreign study program in Besançon, France. After four weeks of intense study to beef up their French skills, students travel to Paris, where they visit museums, galleries, historic sites and attend concerts, ballet and other cultural events.

Funding for the trip comes from the Frances E. Noble Endowment for Study in France, which is administered by Dr. Joseph Reish, college dean and professor of French. The endowment was started when Noble, a WMU French professor for 43 years, left her residuary estate to support students' studies abroad. It also pays for a French student to visit WMU each fall to teach French, French culture and promote studies in Besançon.

Faculty member honored

Dr. Shirley Van Hoeven was recognized at the Lee Honors College graduation reception in April for her many years of service to the college.

Van Hoeven, who was presented with the 1998 WMU Distinguished Service Award, began her work in the WMU Communication Department in 1970 and was named graduate program director and graduate advisor in 1979.

Her research has led to 16 professional publications and numerous conference presentations. For the Lee Honors College, Van Hoeven for many years taught an interpersonal communication class in conjunction with the college's Community Contexts and Contacts Cluster.

Van Hoeven retired from the University at the end of June, after 29 years of service.

Books

Caught Off Guard: Teachers Rethinking Censorship and Controversy

Allyn and Bacon, 1999

Dr. Ellen H. Brinkley, associate professor of English

The societal causes underlying censorship in the schools and ways teachers can combat censorship are examined through experiences of educators involved in curricular controversies. The book gives practical information and insights to help teachers respond to concerns, fears and demands of parents and organized groups.

I Ain't Sorry for Nothin' I Done: August Wilson's Process of Playwriting

Limelight Editions, 1998

Dr. Joan Herrington, assistant professor of theatre

Herrington examines August Wilson's plays throughout his development as a dramatist and ties his methods to those of visual artists and jazz musicians. Like them, Wilson assembles bits and pieces of dialogue and builds his plays from there.

Reading Auschwitz

Alta Mira Press, 1998

Dr. Mary Lagerwey, assistant professor of nursing

Among findings in this extensive examination of memoirs by Holocaust victims is that experiences of camp victims differed by gender and that women's accounts are being overlooked. Analysis of victims' memoirs are interspersed with Lagerwey's journal entries as she conducted her research.

Guide to Western Michigan University's Regional History Collections

New Issues Press, 1998

Sharon L. Carlson, Phyllis B. Burnham, Suzanne Husband, Pamela Jobin and Dr. Alan Brown

This guide is designed to pave the way for professional historians and local history buffs alike as they explore Michigan topics ranging from Arcadia Creek to Zeeland. The 342-page guide provides clues about the wildly diverse materials contained in the collections housed in East Hall.
Alumni News

Broncos offering no Gator aid Sept. 4

WMU Broncos cornerstone football fans everywhere, and especially alumni and friends in Florida, are in for a great experience when the Brown and Gold heads for "The Swamp" to take on the Gators of the University of Florida in Gainesville Saturday, Sept. 4.

A rally and reception have been scheduled for 3:30 p.m. at the Holiday Inn University Center near the stadium. The game begins at 6 p.m. Also on Saturday and Sunday, WMU's volleyball team will be in Gainesville for the Sun-Trust Invitational Tournament. Game times are noon and 4:00 p.m. Saturday, and noon Sunday.

Alumni and friends can make arrangements to attend pre-game events and get football game tickets through the WMU Alumni Association by calling (616) 387-8777. A block of rooms has been reserved at both the Holiday Inn University Center and the Sheraton Gainesville Hotel.

GM exec Roy Roberts to be reunion speaker

Former WMU Trustee Roy S. Roberts, BBA '70, a top executive at General Motors, will give the keynote address at a banquet Saturday, Sept. 25, that forms the centerpiece of the University's first Black Alumni Reunion Sept. 23-25.

Roberts is vice president and group executive of GM sales, service and marketing for North America. He served as a member of the Board of Trustees in the early 1990s.

"This will be a cultural celebration of diversity and historic contributions," says Sharon Seabrook Russell, assistant director of alumni relations. "Commemorative invitations are going out to black alumni from all classes."

The event, sponsored by the WMU Alumni Association, carries the theme "Making the Connection, Continuing the Climb, Keeping the PACE." Activities include:

- **Thursday, Sept. 23**: Alumni can interact with students during a Career Information Expo and later share their experience in "Professor of the Day" programs in several colleges and departments.
- **Friday, Sept. 24**: Alumni will relive their days on campus during a Pioneer Symposium, recognizing some of the historic "firsts" at the University.
- **Saturday, Sept. 25**: Alumni will have breakfast with President Elson S. Floyd, participate in panel discussions, tour the campus and enjoy at a barbecue with members of the Minority Student Leadership Council.

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More information is available from Russell, at (616) 387-8777 or by e-mailing her at <sharon.russell@wmich.edu>. Information also is available on the web at: <www.wmich.edu/alumni>.

Homecoming '99: Under the Big Top

There's no better time to renew ties with your alma mater than during Homecoming, which this year is Friday through Sunday, Oct. 22-24. A carnival theme and a number of special events have been planned. They include:

- **Alumni Association Brunch** - This event begins at 10 a.m. Saturday, Oct. 23, in the Bernhard Center.

- **Homecoming Fest '99** - Alumni from the 1980s are being invited to return to campus to participate in a pre-game celebration from 10:30 a.m. to 12:30 p.m. Saturday, Oct. 23, on Hyames Field.

- **Bronco Football Game** - WMU plays Ball State University in a game that kicks off at 1 p.m. Saturday, Oct. 23.

- **Reunions** - The Class of 1954 and the Class of 1959 will get together to reminisce and there'll be gatherings of college and constituent societies throughout the weekend.

- **Distinguished Alumni Awards Dinner** - The University and the Alumni Association will pay tribute to the 1999 recipients of the Distinguished Alumni Award, starting at 6:15 p.m. Saturday, Oct. 23.

Find out more from the Office of Alumni Relations by phone at (616) 387-8777 or by e-mail at <alumni@wmich.edu>.

Details also will be available on the World Wide Web at <www.wmich.edu/alumni> and in a special Homecoming publication due out this August.

www.wmich.edu/alumni/
Join the fun at the WMU HOMECOMING Campus Classic

Saturday, Oct. 23, 1999

5K Run, 1K Fun Walk and 1K Kids' Fun Run on the WMU campus in the morning before the Homecoming football game. There'll be food, drink and picnicking along the race route for spectators.
Run the beautiful WMU campus or picnic along the route

Saturday, Oct. 23

Open to individuals, families and teams
Alumni, students, faculty/staff and friends of WMU are invited to compete in the 5K Run as individuals, families or three-person teams. The 1K Fun Walk is open to adults and children, while the 1K Kids' Fun Run is open to kids 14 and under—a parent may run with children at no charge.

Where to run, walk, watch or picnic
Races and walk start on West Michigan Avenue in front of the Bernhard Center (formerly the Student Union). Spectators are invited to picnic along the race route. Maps with picnic areas highlighted will be available on the day of the race. Coffee, juice and breakfast snacks will be served before and during the race on West Michigan Avenue.

What you get
Long-sleeve T-shirt for each runner and walker, awards for top finishers, raffle prizes, pre-Homecoming football game tailgate at Hyames Field and discount on Homecoming football game tickets.

Food, drink and awards
Racers and walkers are invited to a complementary tailgate awards ceremony at Hyames Field (next to Waldo Stadium). There will be food, drink and awards starting at 11 a.m.

Awards:
Awards given for:
- Top overall individual finisher, male and female.
- Top finishers, individual and team divisions.
- Kids' 1K runners and walkers 14 and under—each will receive a participants medal.

Early Registration
Early registration post marked no later than Oct. 9, 1999.

Late Registration Fee
There will be a $5 dollar late registration fee added to each individual and team registration received after Oct. 10, 1999.

Thursday and Friday Pre-Registration Packet Pick-Up
Thursday and Friday, Oct. 21 and 22, from 5:30 to 8:30 p.m., there will be registration packet pick-up and late registration at Walwood Hall, Oakland Drive, on WMU's East Campus.

Late Registration / Packet Pick-Up
Saturday morning registration and packet pick-up will take place at the Bernhard Center, near the starting line, from 7:30 to 8:30 a.m.

Questions?
Check out our Web site at <www.wmich.edu/race>; call (616) 387-8400; or e-mail us at <univ-rel@wmich.edu>.

Race Participation
(Check one)
- 5K Run
- 1K Kids' Fun Run
- 1K Fun Walk

Individual competitor's age division
- 7 & under
- 8-11
- 12-14
- 15-18
- 19-23
- 24-29
- 30-39
- 40-49
- 50-59
- 60+

Team member competition division
- College
- Residence Hall
- Greek
- Corporate
- School
- Other

Shirt size
- S
- M
- L
- XL
- XXL
- Youth M
- Youth L

Registration forms must be completed for each person participating in run or walk.

Early registration forms must be postmarked on or before Oct. 9, 1999.

___ Male ___ Female ___ Age

___ Alumni ___ Friend ___ Student
___ Faculty ___ Staff

___ Late Registration Fee
___ $5 per person team
___ $20 per adult team

Fees
Enclose fee or pay by credit card
Individual fees
- $10 adult
- $5 student
- $2 child (14 & under)
- $15 family
Team fees (three-person team)
- $10 per student team
- $20 per adult team

Late registration fee of $5 will be added to each individual and team registration received after Oct. 10, 1999.

NAME
ADDRESS
CITY STATE ZIP
PHONE

please complete other side
Tailgate and football game tickets
Available for runners, walkers and family members
___Non-participant tailgate ticket, $5 per person
___Football tickets for Broncos vs. Ball State, $8 per person

WAIVER
Registration not valid without signed waiver(s):
In consideration of your accepting this entry form, I hereby for myself, my heirs, executors and administrators waive and release all rights and claims for damages I may have against Western Michigan University, its Board of Trustees and the sponsors of the WMU Homecoming Campus Classic, its agents, representatives, successors and assigns for any and all injuries suffered by me at said run, or which may arise out of participation in the WMU Homecoming Campus Classic. NOTE: PARENT MUST SIGN IF PARTICIPANT IS UNDER 18.

SIGNATURE __________________________ DATE ________________

#___ $_____ Adult ($10)
#___ $_____ Student ($5)
#___ $_____ Child 14 & under ($2)
#___ $_____ Family ($15)
#___ $_____ Student team ($10 per team)
#___ $_____ Adult team ($20 per team)
#___ $_____ Tailgate tickets for non participants ($5 per person)
#___ $_____ Football game tickets ($8 per person)
#___ $_____ Grand total

Method of payment
___Check ___Money order
Make check payable to Western Michigan University
Credit card ___Discover ___Visa ___MasterCard

ACCOUNT # ___________________________ EXPIRATION DATE ______________

NAME AS IT APPEARS ON CARD __________________________

Mail registration to:
WMU, University Relations, 240 W. Walwood Hall, Kalamazoo, MI 49008 or Fax (credit card registrations only) to (616) 387-8422.

Questions?
Check out our Web site <www.wmich.edu/race> or call (616) 387-8402.

Homecoming 1999
Oct. 22-23 Events

Friday afternoon (Oct. 22)
12 noon to 3 p.m.
Western Student Olympics and Fritter Fest
3 to 5 p.m.
IFC/NHPC/Panhel Soap Box Derby
6 to 10 p.m.
Carnival

Saturday (Oct. 23)
9 to 9:45 a.m.
Homecoming Campus Classic Race
10:00 a.m. to noon
Alumni Association Brunch
11 a.m. to 12:30 p.m.
Pre-game tailgates at Hyames Field
1 p.m.
Football: Broncos vs. Ball State
5 p.m.
Volleyball: Broncos vs. Ohio U.
7 p.m.
Hockey: Broncos vs. Bowling Green
6:15 p.m.
Distinguished Alumni Awards Dinner

Events and times are subject to change.

Major sponsors
Alumni are listed under their preferred class years.
Names printed in gold denote membership in the WMU Alumni Association.

Don’t hesitate to contact us when you have news to share in our class notes or obituaries sections. For class notes, make sure to include your name (first, middle, last, maiden), address, degree(s), year(s) graduated and phone number. We will publish your photo as space permits.

Write: Classnotes/Obituaries
WMU Magazine
1201 Oliver St.
Kalamazoo MI 49008-9985
Fax: (616) 387-8770
E-mail: michelle.hastings@wmich.edu

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1945 - 1965

Pauline I. Dennert (Hill)
BS ’49, has been inducted into the National Baseball Hall of Fame for her participation in the All-American Girls Professional Baseball League.

James H. Beck
BBA ‘60, has begun phased retirement after 20 years at the University of Michigan. The last 16 years he was director of marketing communications.

William E. Gapske
BBA ’60, recently received a Distinguished Service Award from Kansas State University.

Greg A. Hastings
BS ’61, is serving on the federal Freedom Support Act graduate fellowship selection committee in education administration.

Mary C. Forestieri
BA ’62, recently retired after teaching speech communications at Lane Community College, Eugene, OR.

Roger C. Steininger
BS ’64, a consulting geologist, was recently appointed to the Board of Apollo Gold Inc., Reno, NV, as an outside director.

Greta A. Sabrosky Williams
BA ’64, MA ’86, was named 1998 Woman of the Year by the Kalamazoo Area Women’s Festival. She is executive director of Big Brothers Big Sisters, serving Kalamazoo and Calhoun counties.

Mickey R. Noble
BS ’65, MA ’75, is the new Holton Township (MI) supervisor.

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1966 - 1970

Dr. James E. Bultman
MA ’66, EdD ’71, has been named the 11th president of Hope College, Holland, MI.

John E. Horton
BS ’66, MS ’71, has retired after 32 years of teaching in the Jackson (MI) Public Schools.

Ray J. Rabidoux
BBA 66, has been named president and chief executive officer of Glacier Hills, a not-for-profit life care retirement community in Ann Arbor, MI.

Maurene A. Coe
BA ’67, has been named Ohio Gifted Teacher of the Year. She resides in Youngstown, OH.

J. Otis Davis
BA ’67, has been named the 36th District Court Administrator in Detroit.

Dennis E. Cox
BS ’68, has won the runner-up Portfolio Silver award for the second consecutive year in the Travel Photographer of the Year competition, sponsored by the Society of American Travel Writers. Cox resides in Ann Arbor, MI.

Michael E. Clark
BS ’69, has been promoted to the position of state training manager by the Florida Department of Transportation, Office of Toll Operations, Boca Raton, FL.

Richard T. Cole
BA ’69, has been named senior vice president for strategic planning and corporate communications for Blue Cross Blue Shield of Michigan in Detroit.

Roy L. Hart
BBA ’69, has been appointed manager of the Unemployment Agency’s Alpena (MI) office.

Richard Korb
BA ’69, MA ’73, has been selected to head the 2,000-student Ipswich (MA) School District.

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Members for Life

We at the WMU Alumni Association would like to take this opportunity to welcome our newest life members. We thank you and commend you for your interest in your University through life membership in our association.

Susan J. Beyerhelm
BS ’92, Lansing, MI

Luther R. Deese
MA ’65, Ed.D. ’96, Muskegon, MI

Gregory A. Dobson
BBA ’91, MBA ’95, Kalamazoo

Melinda Hagaman Dobson
BA ’94, Kalamazoo

Edward W. Hellman
BS ’88, Albany, GA

John D. Hoxie
BBA ’84, Lake Orion, MI

Brian J. Kelly
BA ’87, Oak Forest, IL

Else L. Kelly
Oak Forest, IL

Arlene Rector Loomis
BA ’39, Wheaton, MD

Matthew J. Myers
BS ’94, Toledo, OH

Floyd L. Parks
BBA ’55, MBA ’64, Kalamazoo

Phyllis Clearwater Parks
Kalamazoo

Nimisha U. Raval
MS ’97, Naperville, IL

Uday R. Raval
MS ’96, Naperville, IL

Martha Stevens Reid
Richland, MI

Patrick J. Schneider
BA ’77, Lake Zurich, IL

Adam B. Tillman
BS ’96, Kalamazoo

Marcia A. VanGemert
BS ’95, Vicksburg, MI
Classnotes

Kenneth L. Brockway
BBS '70, MBA '75, has been elected to a three-year term on the board of directors of the Western Coal Transportation Association, Juno Beach, FL.

Robert E. Chadwick
BBA '70, has been elected president of the Special Olympics Michigan Board of Directors.

John E. Houghton
MBA '70, is named in the 1998 edition of Who's Who Among America's Teachers. Houghton is an associate professor of forestry at the University of Wisconsin-Stevens Point.

Shirley McFee
MA '70, has been re-elected for a one-year term as chairwoman of the board of directors for the Automobile Club (AAA) of Michigan. She's a Battle Creek, MI, resident.

Roy S. Roberts
BBA '70, is vice president and group executive in charge of sales, service and marketing in North America for General Motors Corp., Detroit.

Franklin C. Sims
BA '70, has been appointed president of MacArthur Properties, a California-based real estate development firm.

1971 - 1975

Ken E. Cooper
BS '71, recently presented an exhibit of his paintings in Nottinghamshire, England.

James P. Schnackenberg
BA '71, has been appointed deputy director/duyey health officer of the Barry-Eaton District Health Department, Hastings, MI.

Melvin L. Waisanen
MA '71, has been hired by Lake Superior State University as its new registrar and director of student services.

Joan H. Krause
BA '72, has been elected to a one-year term as chairperson of the WMU Board of Trustees.

James H. Vandenbergh
BBA '72, has been appointed vice chairman for Lear Corp. He lives in Grosse Pointe Shores, MI.

Steve J. McKinley
BA '73, is expanding his insurance agency by purchasing an Allstate agency in St. Johns, MI. He lives in DeWitt, MI.

Keith A. Pretty
BS '73, former WMU vice president for external affairs and general counsel and chief executive officer of the WMU Foundation, has been appointed president of Walsh College, Troy, MI.

Dennis T. Ward
BBA '73, has been named president and chief executive officer of Regions Bank, Orlando, FL.

Ronald V. Wheeler
BBA '74, has joined Bradford Home Loans, Lansing, MI, as executive vice president and chief operating officer.

Michael A. Klimowicz
BS '74, has been appointed vice president of product development for AeroGen Inc., Sunnyvale, CA.

John (Jeff) Linderman
BBA '74, has been appointed finance director for the City of Battle Creek, MI.

Richard B. Maison
BA '74, MPA '88, has been named second in command of the U.S. Department of Defense's Defense Logistics Information Service Battle Creek, MI.

Fred M. Ritsema
BA '74, has been appointed chairperson of the English as a Second Language Department, co-chairperson of the English Department and chairperson of the Site Council for Tyee High School, Seatac, WA.

Gerald M. Burns
BA '75, has opened his own law office in Madisonville, KY.

1976 - 1980

Richard R. Fellows
BBA '76, was recently appointed director of internal audit and corporate compliance for Sparrow Health Systems, Lansing, MI.

Pamela Staton
BBA '76, has been appointed director of executive education at the University of Michigan Business School.

Scott F. Thornton
BS '76, was named the 1998 recipient of the corporate "Close to the Customer" award by Bozell Worldwide, an international advertising firm with offices in Detroit.

Keith A. Woods
BA '76, MA '84, has been promoted to senior vice president at MORPACE International, a marketing research and consulting firm. He also was appointed to the MORPACE International Executive Committee, Dearborn, MI.

Dan C. Ashcraft
BBA '77, has been named honorary fund drive chairperson for Junior Achievement of Michigan's Clare and Gladwin counties.

William J. Ford
BS '77, has been promoted to detective lieutenant and commanding officer of the Michigan State Police Fifth District Fugitive Team in Southwest Michigan. He lives in Battle Creek, MI.

Angela M. Pasula
BA '77, of Stevensville has been appointed judge to Michigan's Fifth District Court, Berrien County, MI.

Donald J. Paulson
BBA '77, has joined the office of Arthur Andersen as manager and director of its Business Process Risk Consulting practice in Indianapolis, IN.

William R. Battersby
BS '78, has been appointed chairperson of the Lube Oil Committee of the Petroleum Marketers of America Association in Illinois. He is president of Mid-Town Petroleum Inc., Bridgeview, IL.
Kathleen S. Fehrenbach  
BS '79, is the new home economics teacher for Portland (MI) Middle School.

JoAnne A. Gunn  
BS '79, was recently named store manager at Hudson's Fairlane, Dearborn, MI.

James D. Hall  
MPA '79, graduated as part of the 10th class to complete Leadership Michigan, a leadership development program of the Michigan Chamber Foundation. He lives in Charlotte, MI.

C. Lara Meeuwse  
BBA '79, MBA '84, has joined the Kalamazoo County Board Road Commission.

Joseph J. Bellinger  
BS '80, has been elected a principal in the law firm of Miles & Stockbridge P.C., Baltimore, MD.

Sheryl Sculley  
MPA '80, has been honored with the 1999 YWCA Tribute to Women Award from the YWCA of Maricopa County in Phoenix.

1981 - 1985

Diana L. Davis  
MA '81, is the new assistant principal of Lakeshore High School, Stevensville, MI.

Beverly Brown  
BBA '82, graduated as part of the 10th class to complete Leadership Michigan, a leadership development program of the Michigan Chamber Foundation. She lives in Flint, MI.

Theresa A. DiSalvo Orr  
BS '82, has joined the Detroit office of the law firm of Dickinson Wright PLLC, as a member. She has extensive experience in intellectual property law.

Darlene T. Pylar  
BBA '82, recently joined Cunningham & Legner Ltd., Geneva, IL, as an administrative assistant.

Julie A. Sikorski  
BBA '82, received the Growth Award, Press Award and National Press Award from COMPUTER TOTS/COMPUTER EXPLORERS, a global children's computer education company with offices in the Detroit area.

Well spoken  
Ida Wiedel, MA '67, brings the benefits of effective speaking to clients from 18 countries.

She's putting the accent on good speech

Though she was born in rural Florida, Ida Wiedel, a professional speech consultant in Kansas City, speaks today with the hint of a British accent—the result of more than 30 years' practice at perfecting her speech.

"That's by choice," says Wiedel, who graduated from WMU in 1967 with a master's degree in speech pathology. "I've chosen to speak with clear, distinct diction."

Some have reacted adversely. "I've had people say, 'How dare you speak like that,'" she says. "They're reacting to a stereotype of how they think an American black woman should speak."

Wiedel took courses from the late Charles Van Riper, the international authority on stuttering who established WMU's pioneering program in speech pathology. "He was fantastic," she recalls.

Wiedel began her career working with the neurologically impaired but became frustrated after one client, who had been shot in the back of the head, died of complications from the injury.

"I'd worked with her for two years," Wiedel says. "For me, it was like the closing of a rose. Time to move on." She now helps CEOs, lawyers, athletes, doctors and teachers from 18 countries improve their diction, reduce accents and give better speeches.

Her life-long emphasis on good speech comes to her by example as well as choice. Her father, once in the military, traveled the world and learned the benefits of using standard English. He encouraged his daughter to do the same.

She, in turn, has passed the lesson on to her daughters, one a college senior and the other a resident in obstetrics and gynecology. She describes both as "beautiful African German Americans." Their father, and Wiedel's husband for the past 30 years, is German American.

And, through her business, Personally & Professionally Speaking, she passes her knowledge, experience and confidence on to her clients.

One of them, a Unity minister with a deep fear of public speaking, now is getting standing ovations. "When I see people standing for him, they're standing for what I represent," says Wiedel. "That's where the real satisfaction of my work occurs."
Randall W. Doran  
BS '83, has been appointed partner and regional vice president of Koll Development Co., Dearborn, MI.  

Laurie Kattauh-Snyder  
BS '83, is an education consultant at Ameritech in Detroit.  

James C. Bush  
MA '84, has been appointed a senior associate in the multistate tax practice of the Detroit area offices of BDO Seidman LLP.  

Sue D. Reninger (Ditzhazy)  
BBA '84, has been named a board member of the Columbus (OH) Chapter of the American Marketing Association.  

Angela G. LaVanway  
MA '84, BA '82, has been named executive director of the Venetian Festival in St. Joseph, MI.  

Nathan W. Bolton  
BBA '85, has been promoted to vice president of First of America Bank in Battle Creek, MI.  

Dr. Bill Bowerman  
BBA '85, is director of Lake Superior State University's Gale Gleason Environmental Institute. He and six other American and Japanese scientists were invited by the Japanese government to Japan this winter to share their findings on how manmade chemicals affect wildlife and humans.  

Jeffrey L. Egberts  
BBA '85, has joined the accounting firm of Plante & Moran LLP, Grand Rapids, MI, as an audit partner.  

Vicki L. Trudell-Iseler  
BA '85, has been named managing director for the Michigan Shakespeare Festival in Jackson, MI.  

Kenneth M. Ek  
BBA '87, has been promoted to vice president and manager of Michigan's Rockford/Grand Rapids mortgage operation of Independent Mortgage Co.  

Pamela J. Reeves, MD  
BS '87, has been appointed to the top management team at the Department of Veterans Affairs Medical Center Ann Arbor, MI.  

Janelle A. Stewart  
BS '87, is serving as the Michigan State University Extension 4-H youth extension educator in Lenawee County, MI.  

Donald J. White  
BS '87, has taken the position of manager of electrical production for Tower Pinkster Titus Associates Inc., Kalamazoo.  

John L. Olds  
BBA '88, is president of A+ Consulting, a computer and general business consulting company in Jackson, MI.  

Hal G. Schuhmacher  
BBA '89, has recently become an associate with the law firm of Cunningham, Albritton, Miller, Heffernan, Crimella, Hamilton & Wolfe LLP, Marathon, FL.  

Robert E. Sweat  
BA '89, has been hired as the Portage (MI) Library business manager.  

Ann E. Bird  
MA '90, has been appointed superintendent of Bellevue (MI) Community Schools.  

Monty D. Bishop  
MA '90, has been named principal of Bellevue (MI) High School.  

Nancy Daugirda  
MPA '90, is commanding the Communications Division of the Administrative and Information Services Bureau of the Michigan State Police Department, Lansing, MI.  

Todd W. Turcotte  
BBA '90, has been promoted to controller for Chelee PTO operations for the Dana Corp., Olive Branch, MS.  

August A. Tye  
BFA '90, has opened a dance company, Tyego Dance Project, in Chicago.  

Charles C. Bailey  
BA '91, has been hired as director of information systems at Perry Ballard Inc. in St. Joseph, MI.  

Judy B. D'Arcangelis (Bertsch)  
MM '78, MA '91, has been named the district director of auditorium management and fine arts programming for Three Rivers (MI) Community Schools.  

Jeff S. Breneman  
BA '91, has been appointed associate vice president for legislative affairs at WMU.  

Ted R. Densmore  
BS '91, has accepted a teaching position at West Middle School in Parma, MI. He will teach industrial arts/technology.  

Robyn A. Douglas  
BS '91, has been hired as an occupational therapist for outpatient and inpatient resident services at Pinecrest Medical Care Facility, Powers, MI.  

Teddi E. (Theadora) Kella  
BS '91, was recently promoted to a unit leader with PartyLite Gifts Inc., Kalamazoo.  

Catherine N. Natalie Hoyle  
BA '92, has joined the Houston office of the international law firm of Fulbright & Jaworski LLP as an associate.  

Amy K. Malczewski  
BS '92, has been promoted to account executive at Pace & Partners, Lansing, MI.  

Dr. Craig Pilichowski  
BS '92, has accepted a position at Lakeshore Foot & Ankle Center, Alpena, MI.  

Michael C. Sanderson  
BA '92, has been hired as a special education teacher at Laker Junior High School, Pigeon, MI.  

1986 - 1990  

Scott Van Epps  
BS '86, has been appointed assistant principal for Hartland (MI) High School.  

Mary E. Arnold  
BS '87, MA '96, has accepted a position in Bangkok, Thailand, as a first-grade teacher at the International Community School.
Anna M. Caldwell (Wistrand)  
MBA '92, has joined the law firm of Warner Norcross & Judd LLP, Grand Rapids, MI, as an associate.

Michelle L. Hall-Brown  
BBA '93, has been promoted to account supervisor at Bozell Worldwide, Phoenix.

Lisa D. Hargus  
BS '88, MA '93, has been named principal of Bellevue (MI) Middle School. He lives in Kalamazoo.

Greg S. Jones  
BS '88, MA '93, has been named senior partner in Arthur Andersen's Detroit office.

Lynn I. Lee  
MA '93, has accepted a position as academic counselor in academic advising at Eastern Michigan University.

Sean A. McCann  
BA '93, graduated as part of the 10th class to complete Leadership Michigan, a leadership development program of the Michigan Chamber Foundation. He lives in Kalamazoo.

Aimee L. Tye  
BS '93, has started a dance company, Tyego Dance Project, in Chicago.

John J. Bursch  
BM '94, has joined the law firm of Warner Norcross & Judd LLP, Grand Rapids, MI, as an associate.

Carrie Ann Lausman  
BA '94, was admitted to the Illinois Bar and is employed at Crystal, Heytow & Warnick in Chicago.

R. Ryan McNally  
BA '94, has joined the law firm of Parmenter O'Toole, Muskegon, MI.

Lt. j.g. Patrick G. Meler  
MS '94, recently reported for duty at the Naval Medical Center, Portsmouth, VA.

Kimberly A. Nowak  
BS '94, recently joined Wal*Mart Aviation, Rogers AR, as a corporate pilot.

Daniel M. Tomczak  
MA '94, is a staff geologist at S&ME Inc., Raleigh, NC.

Off to a flying start  
John. L. Wagner, B.S. '59, of East Lansing, Mich., has found a publishing niche by dovetailing his interest in historic lighthouses with his love of flying and photography.

Talented aviator comes full circle  

As an undergraduate, Wagner was allowed to indulge his intellectual curiosities and explore numerous interests. Along the way, he completed the flight training program, a major in physical education, minors in history and industrial technology, most of the requirements for a biology major and teacher certification, and two seasons of underwater research work with the Alaskan Bureau of Commercial Fisheries.

His professional career ultimately focused on aviation, a field one of his Delta Upsilon fraternity brothers had introduced him to at WMU. Wagner sold airplanes for eight years and then worked as a charter, freight and contract corporate pilot before joining the Michigan Bureau of Aeronautics in 1972. An aviation safety specialist, he retired in 1997 after also serving the agency for many years as one of its publication editors.

Wagner started photographing lighthouses seriously in 1986 following a visit to a Delta Upsilon fraternity brother's home near the Holland (Mich.) Harbor Lighthouse. The book project took shape in 1989. It involved a total of six and half years of flying, photographing, writing, and business and design work that capitalized on a variety of creative and technical skills honed since childhood.

"It's basically a picture book with minimal history," Wagner says. "Besides the different perspective of aerial photos, I thought I could provide anecdotes and explanations of the picture-taking process."

"It has, indeed, been a rewarding experience," Wagner says of the book project. "A lady from Tennessee once wrote: 'Tears came to my eyes for the beauty you captured along with the memories I associate in sailing by many of the lighthouses pictured.' Tears came to my eyes as well reading her letter."

Information about Wagner's book and lighthouse art is available from his Web site at <www.michiganlighthouse.com>. The book may be ordered by phone, (517) 337-8193, or e-mail, <mi-lighthouse-wag@arq.net>. It also may be purchased at smaller Michigan shops and booksellers, including Jacobson Stores, Gilmore Brothers and John W. Rollins Books & Music.
Randy S. Bancino
MBA '95, has been promoted to senior manager of the Internet Business Group for Amway Corp., Ada, MI.

Laurie A. Jarski
MM '95, recently opened Broughton Music Center in Kalamazoo.

Deborah K. Tomczak (Miller)
BS '95, is a clinical research associate at PPD Pharmaco, Research Triangle Park, NC.

1996 - 1998

Eric R. Klose
BM '96, has accepted a position with Mackinaw City (MI) Public Schools as a K-12 music teacher.

Teri L. Morante
BS '96, has been named assistant vice president of regulatory and compliance for Citizens Insurance Co. of America, Howell, MI.

Cassandra C. Rumsey
BS '96, has been hired at Union City (MI) Elementary School as a fourth grade teacher.

Laura E. Baber
BA '97, has joined Patriot Publications, Bronson, MI, as a typesetter in the composing department.

Kevin D. Haerverdink
BS '97, has joined the Miller Financial Group Inc., Portage, MI, as a financial adviser.

Kelly M. Krumm
BFA '97, has joined Ford and Earl Associates, Clinton Township, MI, as a graphic designer.

Kelly J. Short
BA '97, has been promoted to assistant account executive at Eisbrenner Public Relations, Troy, MI.

Chad M. Thelen
BS '97, recently joined the DeWitt (MI) Police Department as an officer.

Jennifer A. Van Beek
BBA '97, is the manager of Old Kent Bank, Suttons Bay, MI.

Kristie M. Carr
BS '98, is teaching at John Glenn High School, Westland, MI.

1915 - 1930

Irene O. Berry
TC '23, Jan. 18, 1999, in Dowagiac, MI.

Ruth M. Scherer
TC '24, Dec. 17, 1998, in Midland, MI.

Leona M. Martindale

Lillian (Skoog) Dunlop
TC '27, Sept. 15, 1998, in Dearborn, MI.

Francis L. Corbat
BA '29, Feb. 21, 1999, in Naples, FL.

Lola J. Forbes
TC '29, Jan. 2, 1999, in Paw Paw, MI.

Pauline C. Hall
TC '29, Aug. 19, 1998, in Battle Creek, MI.

Edna (Yates) Roberts

Ethel Maisch (Bradford)
TC '30, Feb. 22, 1999, in Traverse City, MI.

Glenna J. Osborne
BS '40, Feb. 18, 1999, in Comstock, MI.

Helen M. Phaneuf
BS '40, Sept. 20, 1998, in Durand, MI.

1941 - 1950

Janet M. Kausrud
BA '42, Feb. 10, 1999, in Three Rivers, MI.

Pat E. Bouwman

York M. Duffy

Richard Zagers
BS '49, March 17, 1999, in Etowah, NC.

1951 - 1960

Robert E. Dorgan Jr.
BS '51, Nov. 7, 1998, in Lakeland, FL.

Evelyn A. Baad
BA '52, Nov. 13, 1998, in Holland, MI.

Dorothy Boomer Scheim
BM '52, Jan. 12, 1999, in Kalamazoo.

Robert J. Masterka
BS '52, Nov. 6, 1998, in Kalamazoo.

Clare Moe
BS '52, Nov. 27, 1998, in Jonesville, MI.

John N. Strickland
BS '52, Feb. 21, 1999, in Jay, FL.

Ruth J. Pershing

Carol L. Shank
TC '31, BA '53, June 28, 1998, in White Pigeon, MI.

Donald C. Weston

Charles D. Brill
BM '54, MA '62, Aug. 16, 1998, in Ionia County, MI.
Dolores M. Meyers  

Eliza I. Myland  
TC '28, BA '55, March 6, 1999, in Kalamazoo.

Grace V. Maury  

Dorothy C. Lund  
BS '57, Jan. 4, 1999, in Fremont, MI.

Dana Lunger  
BS '57, Feb. 4, 1999, in Jonesville, MI.

William G. McConachie  

Raymond B. Steffen  
BA '59, Nov. 13, 1998, in Grand Rapids, MI.

Arthur Epstein  
BS '58, Sept. 20, 1998, in Middleton, WI.

Ernest L. Hofacker  
BA '59, Nov. 13, 1998, in Grand Rapids, MI.

Robert A. Hoffman  
BS '60, Dec. 9, 1998, in Grand Rapids, MI.

1961 - 1970

Daniel E. Crockett  

James P. Hough  

Nannette M. Petterson  
BS '61, Aug. 7, 1998, in Traverse City, MI.

Celeste A. Perry  
BS '62, Jan. 11, 1999, in Kalamazoo.

Florence E. Schweiss  

Smitle R. Weston  
BBA '63, March 1999, in Kalamazoo.

Viola M. Gross  
MA '64, Feb. 15, 1999, in Bristol, IN.

Darleen J. Mabie  
BS '64, Nov. 15, 1998, in Portage, MI.

Elizabeth I. Pratley  
BS '64, Jan. 6, 1999, in Marshall, MI.

James E. Green  

John W. Dwyer  

Louise Eklund  
BS '66, Aug. 28, 1998, in Portland, OR.

Bertel V. Leaf  
MBA '66, Aug. 1998, in Mundelein, IL.

Helen J. Bennett  
BS '67, May 27, 1998, in Lansing, MI.

Pamela Sukalac Castle  
SC '67, Nov. 16, 1998, in Nashua, NH.

Sharon McIntosh  
BA '67, July 28, 1998, in Waterford, MI.

Isabel M. Covert  
BA '68, Nov. 15, 1998, in Portage, MI.

Harold Goldenberg  
BS '68, Feb. 16, 1998, in Southfield, MI.

Elliott G. Lande  

Marcia M. Rubel  
BS '69, July 30, 1998, in Reading, MI.

Barbara Ann Hord  

Betty Ritcheske  
BA '70, Feb. 3, 1999, in Muskegon, MI.

1971 - 1980

Thomas F. Grashorn  
BS '71, Feb. 21, 1999, in St. Joseph, MI.

Gregory K. Jackson  
BS '71, Aug. 8, 1998, in Southfield, MI.

Paul E. Minsel Jr.  
BBA '72, July 17, 1998, in Farmington Hills, MI.

Beverly F. Schroeder  
BS '72, Nov. 15, 1998, in Kalamazoo.

Lynda (Stuckey) Eagle  
BA '73, MA '74, Dec. 23, 1998, in Lake Orion, MI.

Dr. William Robert Toms  
MA '75, Nov. 1, 1998, in Jackson, MI.

Patricia A. Haney  

Harold L. Small Jr.  
BS '74, Nov. 21, 1998, in Citrus Heights, CA.

James L. Vliet  
BA '78, Jan. 8, 1999, in Kalamazoo.

1981 - 1995

Steven E. Dubnicka  
BBA '83, Nov. 28, 1998, in Oshtemo, MI.

John D. Johnson  
BS '83, Oct. 24, 1998, in Elkhart, IN.

Charles R. Brown  
BS '87, Aug. 14, 1998, in Battle Creek, MI.

Rex C. Bangs  

David D. Waara  

Mary Lucille Schell Bogard  
MSA '93, Jan. 22, 1999, in Bradenton, FL.

Faculty

Lindsay Farnan  

Eunice E. Kraft  
TC '18 and associate professor emerita of language, Feb. 28, 1999, in Sturgis, MI.

Bruce A. Lloyd  
professor emeritus of education and professional development, Jan 31, 1999, in La Mesa, CA.

Gilbert Morell  
assistant professor emeritus of history, Feb. 19, 1999, in Poway, CA.
Athletic News

Tennis teams win MAC title
The men's and women's tennis teams have completed phenomenal seasons. Both captured Mid-American Conference titles and earned automatic bids to compete in the National Collegiate Athletic Association Tournament. Playing in Los Angeles, they each lost the first round in straight sets to UCLA, ranked No. 7 for the women and No. 1 for the men.

The Bronco women won their fifth MAC title and compiled records of 10-2 in the league and 16-10 overall. Coach Betsy Kuhle has had four national scholar-athletes since 1989 and in 17 years, has never finished lower in the MAC than third. The men compiled records of 8-2 in the league and 17-10 overall under second-year coach Dave Morin. In his first year, Morin guided the team to its most wins in 13 years.

George coaching U.S. squad
Volleyball coach Cathy George was selected as an assistant coach to help mentor the United States this summer in the World University Games in Spain.

Women's basketball team has record-breaking year
The women's basketball team under Coach Ron Stewart made it to the Mid-American Conference Tournament semifinals and the Women's National Invitation Tournament first round, finishing 1998-99 with an 11-5 MAC record and a 19-10 overall mark.

The team had one of the best regular-season turnarounds in the nation and its home NIT game—the first for any WMU athletic team—drew 2,572 fans, the top crowd in Bronco women's basketball history. Another season high point was the "take a kid to the game" night, which brought scores of youngsters to University Arena to showcase women's basketball and encourage kids to experience intercollegiate athletics.

Kelly DeLong closed out her collegiate career, finishing second in Intersport Television's 3-point contest televised on ESPN. DeLong, WMU's all-time best female 3-point shooter, led the nation in 1995-96 with a .496 3-point percentage, the fourth best such percentage in NCAA history for a freshman.

'S' Club names 1998 honorees
Vern Davis, B.S. '71, M.A. '79, coordinator of mathematics for the Kalamazoo Public Schools, and Lois Ellis a teacher at Kalamazoo's Arcadia Elementary School for 21 years, are the Alumni "W" Club's 1998 man and woman of the year.


Ellis is a charter member of the Mike Gary Athletic Fund and active in several other athletics-related organizations at WMU. She funded the Ellis Academic Advising Center in Read Fieldhouse in 1995 and created an endowed scholar-athlete scholarship along with her late husband, Dr. Peter Ellis, in 1987.

Sports season summaries
- Basketball, men's—league record, 6-12; overall record, 11-15; league finish in West Division, 4th/6 teams.
- Golf (inaugural season)—dual record, 2-0; league tournament, 7th/7 teams.
- Gymnastics—league record, 2-4; overall record, 5-7; league tournament, 5th/7 teams; NIT, 6th/6 teams.
- Hockey—league record, 5-17-8; overall record, 6-20-8; league finish, 10th/11 teams.
- Synchronized skating (inaugural season)—qualified for U.S. Figure Skating National Championships.
- Track, men's indoor—dual record, 1-2; overall record, 3-2; league tournament, 3rd (tie)/11 teams.
- Track, women's indoor—dual record, 0-2; overall record, 0-2; league tournament, 9th/12 teams.

Scholar-athletes announced
Junior Jeff Brink, tennis, and junior Kim Edwards, track and cross country, are the 1998 male and female scholar-athletes of the year. Brink is a biomedicial sciences major with a 4.0 grade point average. Edwards is a sociology major with a 3.85 GPA.

www.wmich.edu/athletics/
Western Michigan University
Regional Education Programs

We understand the challenges of continuing education. WMU programs are designed to deliver the academic experience you desire to achieve your goals. We offer more than 24 graduate degrees, seven undergraduate degrees and seven certificate programs off campus.

WMU brings the world to you. With locations in Battle Creek, Grand Rapids, Holland, Kalamazoo, Lansing, Muskegon, Traverse City and St. Joseph/Benton Harbor, you can expand your knowledge from almost anywhere in Michigan. In addition, our distance education department brings learning options to you at convenient times and places via today's innovative technology.

Contact your nearest regional center for further information about WMU's regional education programs:

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<tr>
<th>Location</th>
<th>Phone Number 1</th>
<th>Phone Number 2</th>
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<tbody>
<tr>
<td>Battle Creek</td>
<td>(616) 965-5380</td>
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<tr>
<td>Lansing</td>
<td>(517) 372-8114</td>
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<tr>
<td>Grand Rapids</td>
<td>(616) 771-9470</td>
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<td>Muskegon</td>
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<td>Holland</td>
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<td>St. Joseph/Benton Harbor</td>
<td>(616) 983-1968</td>
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<td>Kalamazoo</td>
<td>(616) 387-4167</td>
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<td>Traverse City</td>
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WESTERN MICHIGAN UNIVERSITY  Division of Continuing Education
Back strain, carpal tunnel syndrome and mental stress may be among the biggest problems facing U.S. industry, contributing to the nation's more than 3.5 million annual number of disabling workplace injuries.

But WMU's Dr. Tycho K. Fredericks knows the art of solving problems. He and his colleagues in the University's Human Performance Institute are raising awareness about using ergonomics-based problem-solving techniques to analyze and correct workplace injury problems that cause a financial drain on the U.S. economy equal to that caused by cancer.

WMU researchers are betting that, armed with ergonomics knowledge, Michigan businesses and the engineers they employ will have an edge when it comes to implementing new ergonomic standards proposed by the federal government Jan. 6. The Occupational Safety and Health Administration standards would require that manufacturing and manual material handling operations establish an ergonomics program.

Fredericks, who was appointed by Gov. John Engler last year to Michigan's General Industry Safety Standards Commission, has a passion for finding out what keeps people working at optimum levels—whether it's steel workers at a small foundry, production line workers at a global office furniture firm or even his own students.

Even when he's standing in line at the grocery store checkout counter, Fredericks, an assistant professor of industrial and manufacturing engineering, is busy watching the cashiers to see what their posture reveals.

"Body position always reveals what's wrong with a workstation," he says, pointing out that the "one-size-fits-all" approach to designing workstations is a prime factor in workplace injuries.

But while "one size fits all" may not be a good design approach, a single approach to analyzing workstation problems has real potential, he says.

"There are systematic ways to analyze problems," he notes. "The problem-solving process is the same, regardless of the problem."

That problem-solving process is a key part of his teaching and research. His students learn the process—identify the problem, determine a course of action, detail results and derive conclusions. Each undergraduate student in the senior ergonomics sequence he teaches must complete an ergonomics research project using that process to solve a problem or potential problem in a real workplace.

"Companies in Southwest Michigan have been more than willing to let our students in," Fredericks says. The result for companies is a steady supply of engineering graduates with experience in ergonomics—something most engineering students don't get until graduate school.

"We have to make sure we're meeting the needs of industry, because that's where most of my kids are going," Fredericks notes. "Typically, a new engineer gets thrown out onto the factory floor and told to solve a problem. My goal is to give students enough practical experience that they won't have that 'deer in the headlights' look when it happens to them."

When WMU graduates do hit the factory floor, they already have experience using a variety of high-tech tools to analyze and solve problems. The Human Performance Institute maintains a three-room laboratory with tools that researchers can use for such tasks as analyzing oxygen consumption, stress on the spine during lifting or the impact of vibration on different shapes of hand tools used on various planes. One lab area also focuses on cognitive aspects of performance.

Students learn how to use high-tech tools to find a solution that may be decidedly low tech. After a sophisticated analysis of spinal load using a simulated spine and computer analysis, they may determine that raising the level of the workstation a few inches or reducing the number or tasks completed in an hour will alleviate an outbreak of work-related back problems.
Both graduate and undergraduate students also have an opportunity to work with Fredericks and his colleagues on research done for area firms. That may mean helping analyze the oxygen consumption of foundry workers carrying ladles of molten metal on a production line. Or it may mean analyzing the optimum height from which workers should lift.

For some students, that taste of ergonomics has grown into research experience that sets them apart. The work they do for Southwest Michigan firms is being published in professional journals and presented at international conferences.

Garrett Rozek was one such student. The April 1998 graduate first came to Fredericks two years ago asking for help in securing an internship. He got that and more. Now his resume reads like that of a veteran ergonomist. He’s the co-author of four publications in professional journals, he presented his work at the 1998 International Occupational Ergonomics and Safety Conference, and he was part of a product development research team for a patented new design from a medical products firm.

Rozek, who originally planned to get a bachelor’s degree and head into industry, is now working for Varitech, a Holland, Mich., engineering consulting firm. This fall, however, he’ll head for Clemson University, where he has secured a graduate assistantship.

He learned two important lessons along the way. The research, publication and conference opportunities gave him a look at what is being done in the profession and a realization that he could be part of creating new knowledge. He also learned the lesson that Fredericks wants all of his students to learn—the same consistent and logical approach to solving problems can be used for nearly any situation.

“That’s probably the most important thing I learned from him,” Rozek says. “The process of problem solving is the same, whether you apply it to human relationships, ergonomic research or classical industrial engineering tasks.”

Fredericks has gotten so good at pushing his students to performance peaks, he’s faced with a new problem—one that defies his logical problem-solving techniques. His students are such hot commodities in the job market many choose to launch careers rather than stay on campus for graduate studies. But Fredericks is confident that WMU hasn’t seen the last of his best students, even if they do choose industry over advanced study.

And what kinds of workplace research will attract them back for graduate study? Fredericks has a couple of intriguing ideas.

He would like to know how the widespread use by children of video games and the World Wide Web by children will impact the manual dexterity and response time of the nation’s future workforce.

Working with the psychologists on campus, he’d also like to develop ways to quantify stress with objective measures to help determine how stress affects the way an air traffic controller does his job.

Some classic research problems confront Fredericks on both issues. He’s confident he has a process for solving them.

STORY BY CHERYL ROLAND—
CHERYL.ROLAND@WMICH.EDU
IMAGES BY NEIL RANKIN
Stephen Malcolm was chasing butterflies when he left Oxford University in England and ended up at WMU.

Those delicate orange and black monarch butterflies that populate the Midwest each summer drew Malcolm across an ocean and away from a world that included intellectual soirees with the best and brightest in his field, including his mentor, noted biologist Miriam Rothschild of the Rothschild banking family.

What did Kalamazoo, Mich., offer the biologist that would whisk him away from jolly old England?

Milkweed. Southwest Michigan is simply awash in the prolific green weed that is the dominant food choice of monarch butterflies. Milkweed is also the key component in the chemical defenses used by the butterflies to ward off predators, which is the focus of Malcolm's research.

"I was really excited to come here because this is slap bang in the middle of the distribution of this food plant," says Malcolm, an associate professor of biological sciences. "It means I can do lots of fieldwork by stepping out into my backyard."

He explains that monarchs like milkweed because the plant's oozy, milky latex is poison to the butterflies' predators. One gulp of a monarch that's munched on milkweed and its predators, which include birds and rodents, are caused by the toxin to throw it back up.
Malcolm among the milkweed

So why doesn’t this potent toxin affect the monarch? Malcolm explains that the monarch is an adapted specialist that begins its life as a larva ingesting the plant’s poison and becomes used to it, even storing the toxin to keep up its defenses.

“The first thing these little caterpillars do is eat the hairs off a little area of a leaf and then take a bite. That’s the most dangerous thing they ever do in their life because they get a face full of latex,” Malcolm says, explaining that the mortality rate for larvae is about 90 percent. “When you have a larva that’s two millimeters long and a ball of latex that’s maybe three or four millimeters across, it’s like being hit by a tidal wave of glue. If they survive and keep on feeding, they gradually develop their ability to deal with the poison and are okay.”

As a result of its need for the chemical defense provided by the plants, the monarch migrates from Mexico to Canada each year, producing three or four generations of new larvae that feed on the plant along the migration route.

The seeds for Malcolm’s attraction to monarchs were sown when he was a child and graduate student, and, like the monarchs, has become an adapted specialist to his adopted environment. He finds the culture at WMU is different from Oxford in surprising ways.

“You have a lot of freedom to pursue the things you want to do here without worrying too much about the prima donnas or the egos at a place like Oxford,” he says. “Whatever you do is a product of yourself. It’s a product of your willingness to network with people and you can do that as well here as you can at Oxford.”

Malcolm has made great connections, gaining international notoriety as an expert on monarchs. He has studied milkweed and monarchs in Africa and Australia, and just returned from spending the past semester down under. Co-editor of the book, Biology and Conservation of the Monarch Butterfly, Malcolm has been featured in a British Broadcasting Corp. documentary, on Australian television and as an expert on the Discovery Channel’s Web site.

What challenges remain for the man who knows all about monarchs? Malcolm admits that what he does is a bit “esoteric” and that he has considered doing something with “a little bit more value to mankind.”

As a start, he participated in an international summit in Mexico organized by NAFTA and the Commission for Environmental Cooperation to discuss conservation of the monarchs’ habitats. Malcolm says the issues raised there were eye-opening.

“The whole meeting was focused on conservation of over-wintering habitat for the monarchs in Mexico, which seems like a very esoteric, little thing. But it was a microcosm of the world today,” he says. “All the ingredients were there. There was resource over-exploitation, exponential increase in human population, human poverty, ethical issues, government intervention and social issues. There was this realization that we know an awful lot about the biology of monarchs, but in terms of implementing the kinds of solutions to conservation that we suggested, there is a whole hornets’ nest of other problems.”

The issue has so compelled Malcolm that, as a result of reaction to a review he wrote on a book about insect conservation in which he criticized the author for being naive about these issues, he is considering expanding the review into a book of his own.

“In a way, I’m a little bit scared to get involved with it,” he says. “I’m rather inept socially and politically and I’m sure there are people who are much better qualified than me to do this. But maybe I am wrong. Maybe I am competent. I sort of feel as though I would need to collaborate with sociologists, economists and politicians.”

In academe, however, successful researchers tend to stay singly focused on a specialized area of research, becoming de facto experts on those topics. While that appeals to Malcolm, he says that finding a practical application for his work also is attractive.

“I think it’s even more compelling to think about applying what you know to reality, to try to achieve something that’s worthwhile and that has a greater legacy than just a batch of papers,” he says. “The question is do I research this one area and publish lots of papers and make a name for myself, or do I do something that may make me feel happier with myself in the long run?”

Story by Marie Lee—marie.lee@wmich.edu Images by John Lacko

www.wmich.edu/cas/
A new era in science instruction and research at WMU has begun with the completion of an ambitious facilities improvement project.

With the dedication of Diether H. Haenicke Hall on April 23, WMU ushered in its newest campus building and concluded a $44.4 million, three-and-half-year project to upgrade and expand the University's science instruction and research facilities. In addition to construction of the new four-story, 94,800-square-foot building named for WMU's fifth president, the project took on a complete retrofit of Wood Hall.

Featuring an airy, glass-encased bridge that connects the building's two wings and creates a new western gateway for the campus, Haenicke Hall offers more than 60 state-of-the-art laboratories and two specialized teaching facilities that will support advanced research and teaching for the Departments of Biological Sciences, Chemistry, Geosciences and Psychology.

Designed to foster interdisciplinary research, Haenicke Hall houses specialized equipment and instrumentation that will be used in numerous fields, including neuroscience, cell and molecular biology, chemical and environmental ecology, and geophysics. Among these is an Imaging Center with electron microscopes, light microscopes and advanced imaging equipment and a laboratory with instrumentation for nuclear magnetic resonance, high pressure liquid chromatography mass spectroscopy and X-ray diffraction that will allow scientists to analyze molecular structures of unknown compounds.

The work on Wood Hall, which began in 1995 and was completed in 1998, involved renovating the 38-year-old building and retrofitting it with 30 teaching laboratories, five classrooms and two auditoria. Among the new features of the 150,000-square-foot building are a new entrance with an atrium as well as space for 110 faculty members and 200 graduate students. Departments housed in the building include biological sciences, geography and psychology.

With the completion of Haenicke Hall, a "science quadrangle" consisting of Everett Tower and Haenicke, Wood and Rood halls has been established on the western edge of WMU's West campus.
Wood Hall, left; Haenicke Hall, center; and Everett Tower, right; comprise part of a West Campus "Science Quadrangle."

Of the project's $44.4 million price tag, $38 million was provided by the state of Michigan and $1.4 million by the University with the remaining $5 million being raised through private and corporate donations. A number of the laboratories and facilities within the building are named for donors.

At the Haenicke Hall dedication, a portrait of Haenicke, which will hang in the building, was presented. The portrait is the work of artist Joseph Maniscalco of Orchard Lake, Mich.

Architects for the Haenicke Hall project were Holabird & Root LLP of Chicago. The Austin Co. of Kalamazoo served as the general contractor.

www.wmich.edu/cas/
With a series of fall performances that made the collegiate sailing world take notice, WMU’s sailing team earned a spot on the winter 1999 list of the top 20 collegiate sailing teams in the nation.

The appearance on the list, published in *Sailing World* magazine’s February issue, marks the first time Bronco sailors have cracked the ranks of the college sailing world’s elite. WMU was the only Midwestern school on a list replete with names like the U.S. Naval Academy, Harvard University, Stanford University, the Massachusetts Institute of Technology, Boston University and the University of Hawaii.

Adding to the accomplishment was the fact that the Bronco sail team took a different tack to competitive success, says Aaron P. Bosenecker, a senior from Holland, Mich., who served as commodore of the WMU team for the 1998-99 season.

WMU was the only school on the list without a varsity, coached program, Bosenecker notes. WMU sailors are organized as a club sport and they coach and finance their own competitions.

“A number of other schools, especially those in the Midwest were shocked to see us on the list,” he notes. “But we’ve been steadily improving for the past few years and last fall we really blossomed.”

The 50-member club, which operates out of the Gull Lake Yacht Club, competes at about 16 meets each fall and eight to 10 meets in the spring.
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