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FALL 17

# LEGACY

Design. Build. Test.

UM-Dearborn community gets first look at new Engineering Lab Building





# INSIDE

## FEATURES

### 8 THE PATH TO SUCCESS

A holistic approach to education sets students up for success.

### 14 ON THE JOB

Students gain a competitive advantage—and make a positive impact—through internships.

### 18 REACHING FOR THE SKY

Global accolades for alumnus come from listening, learning.

## DEPARTMENTS

#### 1 Chancellor's Perspective

A partner in southeast Michigan.

#### 2 On the Pond

What's happening, what's new and what's what at UM-Dearborn.

#### 22 AfterSchool

School Ties, Homecoming 2017, Why I Give, Class Notes.

#### 30 Snap

Like they say, a picture's worth a thousand words.

COVER AND INSIDE COVER: ARCHITECT'S RENDERINGS OF THE NEW ENGINEERING LAB BUILDING.

# LEGACY

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Legacy is published by the Office of External Relations  
at University of Michigan-Dearborn.  
It is published twice a year, in the Spring and Fall, and  
is distributed free of charge to alumni and friends.

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# Chancellor's Perspective

## A PARTNER IN SOUTHEAST MICHIGAN

As I approach my final semester as chancellor this winter, I find myself reflecting on the important role University of Michigan-Dearborn has played in our region. Throughout our nearly 60-year history—including my almost 18 years as chancellor—UM-Dearborn has been an advocate for and partner in the advancement of southeast Michigan.

Part of that commitment has included increasing access to the excellence of a Michigan education. On that front, I am thrilled to report that we welcomed another record number of students to campus this year—at 9,339, this marks the third consecutive year of enrollment above 9,000 students.

Another part of this commitment is our work in looking for creative solutions to the complex challenges that confront our region both today and in the future. Students and faculty across campus are deeply involved in important topics for our region, including the future of automation, health disparities in our communities and the characteristics of a strong entrepreneurial climate.

This fall, we once again renewed our longstanding mission to serve the region as we unveiled the first extensive look at the upcoming Engineering Laboratory Building (ELB). The \$90 million project will include expanded and improved flexible classrooms, spaces designed for curriculum-based projects and dedicated labs that replicate industry environments.

This building will allow the College of Engineering and Computer Science to continue to grow well into the future. With years of record-breaking enrollment within the college, we are stretched beyond our maximum capacity in our current facilities.

But the new ELB is about more than enrollment growth.

Here, our faculty will develop modern, innovative academic programs designed to meet the needs of Michigan's—and the world's—changing industries. Our students will collaborate on projects with more opportunities to design, build and test their ideas—giving them the type of hands-on experiences that are critical to fill today's engineering jobs. And our business and community partners will work alongside us to conduct research in high-demand and emerging fields.

There are many ways to stay involved as we move forward with this important project. I invite you to become a victor for UM-Dearborn and the Engineering Lab Building: Attend the groundbreaking event in spring 2018, keep updated on the building's progress at [umdearborn.edu/elb](http://umdearborn.edu/elb) and learn how you can help shape the future of engineering education and practice.

Sincerely,

Daniel Little  
Chancellor



PHOTO BY AUSTIN THOMASON



# On the Pond

what's happening, what's new and what's what at UM-Dearborn

## Design. Build. Test.

### UM-Dearborn community gets first look at new Engineering Lab Building

**WHEN UM-DEARBORN UNVEILED PLANS FOR ITS NEW ENGINEERING LAB BUILDING (ELB) THE MESSAGE WAS TWOFOLD: THIS IS A RENEWAL OF THE UNIVERSITY'S MISSION OF ACADEMIC EXCELLENCE AND METROPOLITAN IMPACT—WITH A LOOK TOWARD THE FUTURE.**

Active learning classrooms provide a space for students to receive a 21st-century engineering education. Cutting-edge laboratories allow faculty and students to partner with industry, leveraging research to address today's needs and create tomorrow's technology. And spaces throughout the facility foster innovation and collaboration, both within the College of Engineering and Computer Science (CECS) and throughout campus.

This fall, during the *Engineering Our Future: Engineering Lab Building Preview*, the UM-Dearborn community got their

first real introduction to the \$90 million project.

A digital flythrough video showed the corridors, classrooms and labs of the future ELB, which will include:

- 123,000 square feet—57,000 square feet of renovated space and a 66,000-square-foot addition
- 40 teaching and research labs, including robotics, bioengineering and cybersecurity
- High-tech collaborative classrooms
- Silver LEED-certified building

Before the preview event, CECS junior Aaron Cofield stood in line with the crowd in the Institute for Advanced Vehicle Systems atrium, hoping to get a seat. After seeing the design and features, the Intelligent Systems Club vice president said he was pleased with what he saw.

He'll earn his bachelor's degree before construction is finished, but hopes to take advantage of the facility when he pursues a graduate degree.

"When I come back to get my master's degree, I'll be really excited to use the lab space in the new ELB," Cofield said.

The university plans to break ground in spring 2018 and open the new ELB in fall 2020. CECS Dean Tony England said this ELB—equipped with new

technology, modern research space and flexible learning and lab areas—will better prepare students for 21st-century issues, skills and careers.

"It's an environment where students and faculty can imagine that they can do anything. They'll be able to design, build and test their ideas all right here," England said, looking forward to the new facility, but also noting that the existing ELB—one of the original UM-Dearborn buildings—has been a home to some of the best engineering minds. "We will continue to have strong industry partnerships and research-focused faculty, but in a place that will allow their creativity to thrive. We are using new ideas, but we are also preserving the best of the past."

The ELB will provide additional opportunities for experiential





learning and pioneering research partnerships with industry, and will allow for expanded K-12 and community outreach efforts.

“This new space is designed to encourage creativity. It will open the minds of our students and our faculty. It will also be an excellent opportunity for industries that want to partner with us,” England said.

Not only is this project important to keep up with scientific advances, it is also essential to grow with increased demand.

UM-Dearborn’s engineering program enrollment has more than doubled since 2010. The new ELB will allow UM-Dearborn to

double the number of engineering students it graduates over time.

With more than 90 percent of CECS undergraduates remaining in the region after graduation, UM-Dearborn will continue to be a premier pipeline of talent to southeast Michigan and accommodate additional applied research opportunities for industry.

“You have engineering students learning to become skilled engineers, with not just theoretical principles, but the application of those principles,” said MAHLE Engineering Manager John Mammarella. “These hands-on skills are going


to make them effective engineers and propel them to very successful careers.”

For the project, one-third of the \$90 million cost will come through the state of Michigan’s capital outlay budget and one-third from bond financing, with the remainder coming from corporate, university and individual support.

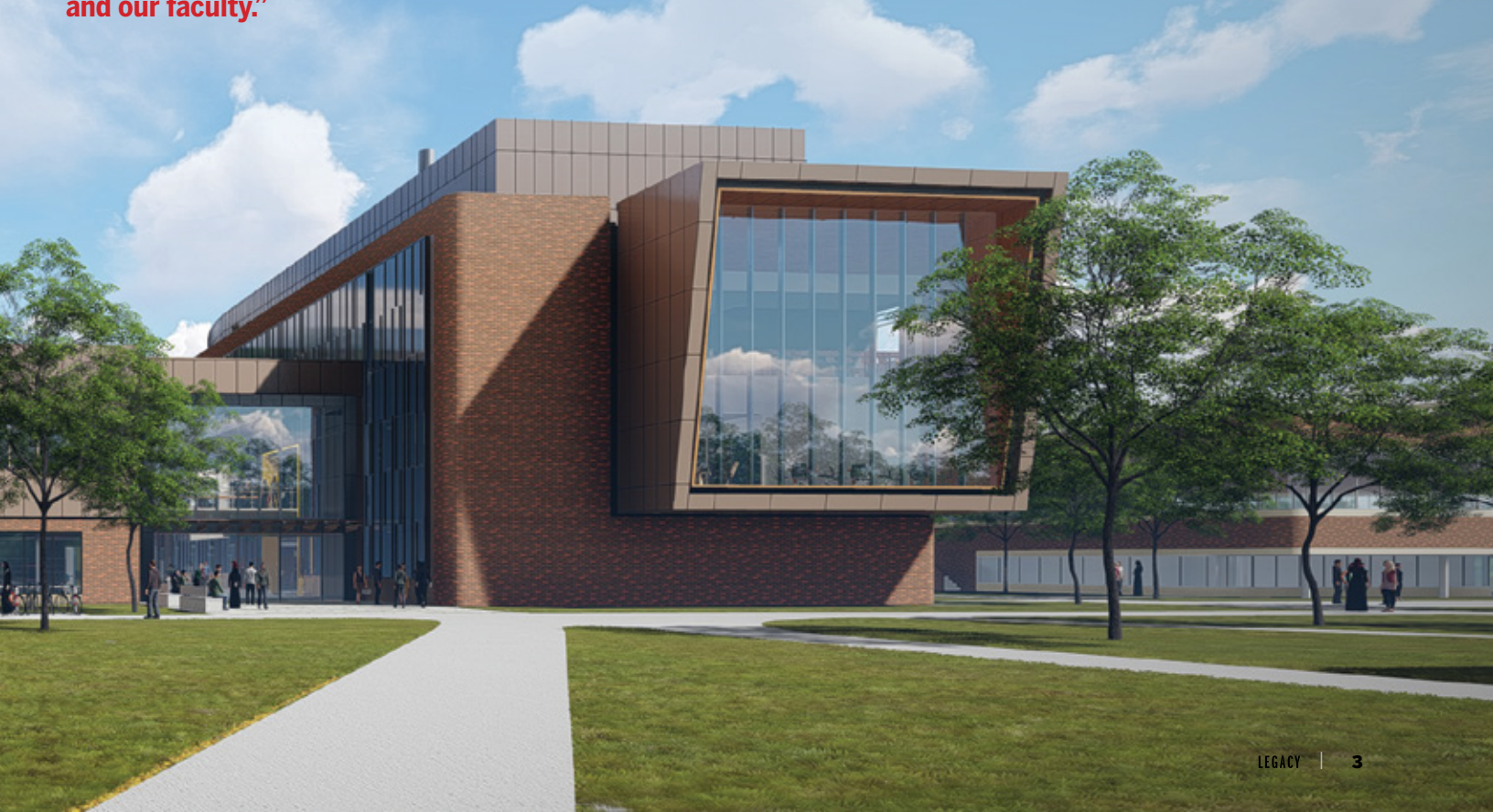
Donors like University of Michigan Regent Ronald N. Weiser and his wife Eileen L. Weiser are investing in the project to ensure a 21st-century education for tomorrow’s students.

The Weisers are gifting \$1 million in support of the university’s commitment to outstanding engineering research and a learning environment that will benefit students, communities and industries throughout the region.

In recognition of their gift, UM-Dearborn will name the Weiser Family Atrium, a space for student and faculty collaboration, project work, presentations and industry showcases.

“This school, this project, is going to be a catalyst for helping industry to continue to develop its capabilities in southeast Michigan,” Weiser said. “This is a source of pride not only for this campus, but for the entire University of Michigan.” 

**“This new space is designed to encourage creativity. It will open the minds of our students and our faculty.”**





## A natural habitat

### Student's Detroit Zoo internship leads her to research, aspiring career path

**T**HOR EXCHANGES A LOOK WITH A YOUNG BOY HOLDING A STUFFED ANIMAL. KONG SWIMS IN HIS EXPANSIVE POOL. SASSY RELAXES IN A NEST THAT'S NOT HERS.

And—sitting in the Detroit Zoo's Polk Penguin Conservation Center, the largest facility for penguins in the world—senior Jennifer Zavalnitskaya records their actions.

"They have colored bands on their flippers so you know who's who," said Zavalnitskaya, who is majoring in biology and environmental science. "But you get to know them without looking at their bands after a little while because of their personalities."

Serving as a research volunteer to study penguin behavior in their new habitat—it opened in 2016, the same year she started working at the zoo—Zavalnitskaya watched and noted their activities to help the zoo understand the impact of the new space on the birds' welfare.

"The data is still being analyzed, but the penguins are swimming much more than they did in their former exhibit space," Zavalnitskaya said. "And in the Penguinarium, the four species of penguins spent less time together; here, they intermix more. I'd say those are all signs they enjoy the new habitat." And the penguins aren't the only group that appreciates the new digs: The exhibit recently received the 2017 Exhibit Award from the Association of Zoos and Aquariums.

Zavalnitskaya, who began visiting the zoo as a child, said she didn't realize students could conduct research there until she participated in a Detroit Zoo field trip for Associate Professor Anne Danielson-Francois' Behavioral Biology course.

"I learned that research internships were available," she said. "My first response was, 'There's a job where people observe cute animals to engage them and give them the best habitat possible? Sign me up.'"

Not only did Zavalnitskaya get to assist with research for the zoo, she was allowed to do her own study as well.

"Jen has been a great member of our penguin observation team," said Matthew Heintz, research associate for the Center for Zoo Animal Welfare, Detroit Zoological Society. "Beyond data collection, she has always been eager to discuss recent observations and results, and took the initiative to do a small research study to help us better understand penguin swimming behavior."

While watching scuba divers clean the 326,000-gallon tank—a group goes in multiple times a week—Zavalnitskaya noticed a small change in penguin behavior, and decided to explore it further.

"I wanted to see if the divers' presence really did affect them. For some penguins it did, and for others it didn't. It turns out that just like us, some penguins are more social than others."

Zavalnitskaya completed her research for the penguin project, but the zoo invited her to continue to study animal behavior at the newly expanded Edward Mardigian Sr. River Otter Habitat. And she's accepted.

She said her courses, along with Detroit Zoo training, has given her confidence in her abilities and shown her that she's found the right path.

"I've always been an advocate of taking care of the Earth and I really enjoy learning about animals and helping give them a voice," she said. "You can build a life, a career, around giving them a better life." **M**







## EYE ON RESEARCH

### Changing hats

How do you make safety equipment more effective?

Mechanical Engineering Professor P. K. Mallick is conducting research to find out.

Mallick—an expert on lightweight materials like plastics and composites—and his students have been working to evaluate and suggest materials to reduce the weight of the average 14-ounce hardhat.

The project, “Guardhat Material Selection and Product Lightweighting,” was funded by Guardhat, Inc. and the State of Michigan’s Economic Development Program’s Small Company Innovation Program.

Guardhat’s overall goal is to incorporate smart technology into the hardhat’s design and to keep or increase the comfort of the currently used model—and that means starting with the weight of the hardhat.

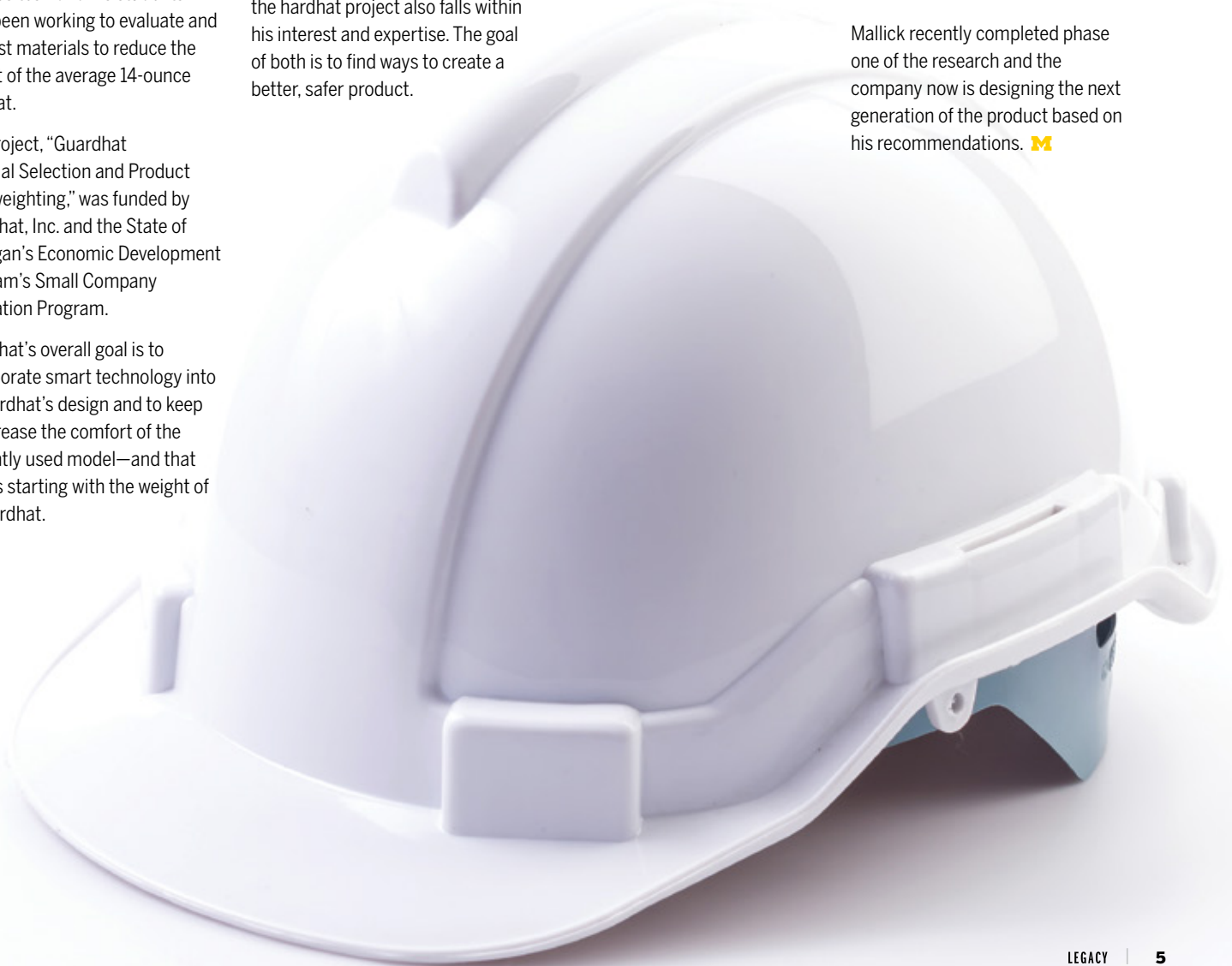
“With the added electronic equipment, the weight of the hat needs to be reduced so that it can be worn for long periods of time,” Mallick said.

Although this research is outside the automotive arena that Mallick generally contributes to, he said the hardhat project also falls within his interest and expertise. The goal of both is to find ways to create a better, safer product.

In the United States today, about three million people are injured every year on the job; more than 4,000 of those people die. The safety-focused technology will monitor the area and the conditions of those who regularly work on potentially hazardous sites.

“The smart technology will have many functions,” Mallick said. “To give an example, if something were to happen in the work area, the activity would be wirelessly logged through the hat’s technology and sent to others. That way people would be notified immediately to take action.”

Mallick recently completed phase one of the research and the company now is designing the next generation of the product based on his recommendations. **M**





## Full-court press

### Hoopster named chair of NAIA student-athlete association

THE BASKETBALL COURT ISN'T THE ONLY PLACE HASSAN DOGHMAN GIVES HIS ALL, BUT THE SPORT HAS PLAYED AN IMPORTANT ROLE IN HIS STRONG WORK ETHIC. AND DOGHMAN, AN ACCOUNTING MAJOR AND 6'3" WOLVERINE GUARD, IS EAGER TO SHOW HIS APPRECIATION FOR ALL THAT THE SPORT HAS GIVEN HIM.



Fortunately, the National Association of Intercollegiate Athletics Association of Student-Athletes (NAIA ASA) has given him a way to do that: Doghman was recently named chairman of the NAIA ASA, the first UM-Dearborn student to earn that honor.

In this role, Doghman is leading conversations about the student-athlete experience, the health and safety of student-athletes and character-building initiatives.

The chairmanship couldn't have come at a better time.

Doghman, who's played basketball since the age of 6, received news of the selection soon after learning his doctors were benching

him indefinitely because of a medical condition.

"As one thing was taken away, I was humbled to have another appear to let me stay involved in athletics," said Doghman, who still wears No. 22 and attends practices and games to support his teammates.

Doghman—who will graduate in December and has been offered a position with Price-waterhouseCoopers, where he interned over the summer—said he's had great mentors and coaches. And he wants to lead through their example.

He sees his NAIA ASA role as one way to do it.

"When taking anything to the next level—whether it's your game or your personal growth—it's important to have the 'three Ds': determination, dedication and discipline," said Doghman, who will start his M.B.A. at UM-Dearborn this winter. "With a position like this, I want to leave a legacy of having a positive outlook and a never-give-up attitude in all aspects of life." **M**

## Have path, will travel

### Gateway Path extends to campus' Fairlane Center

THE CLASSROOM ISN'T THE ONLY PLACE FOR MULTIPLE CHOICE ON CAMPUS.

THANKS TO THE EXTENSION OF THE GATEWAY PATH, THERE ARE NOW ADDITIONAL TRAVEL OPTIONS FROM MAIN CAMPUS TO THE FAIRLANE CENTER CAMPUS...AND EVERYWHERE IN BETWEEN.

In addition to the existing shuttle service, a new 10-foot-wide asphalt extension encourages walking and cycling.

"Before the new path, the only safe way to go between Fairlane Center and the rest of campus was by car. We wanted to change that and make it a more cohesive, connected campus," said Facilities Planning Director Kate Pepin.

The Gateway Path—which opened in 2013 to connect University of Michigan-Dear-

born's main campus with the Union at Dearborn student housing—now continues by Fairlane Town Center Mall, crosses at Hubbard Drive and ends at the university's Fairlane Center buildings.

The project was a collaboration between the City of Dearborn, the State of Michigan and UM-Dearborn and is an extension of the Rouge River Gateway Trail that runs from Ford Field Park to Hines Park. **M**





# Social life

See photos of the campus you remember. Get updates on the university's goals for the future. And learn about professors, students and alumni who are making a difference today.

Stay connected to your campus by following University of Michigan-Dearborn on Facebook, Twitter, Instagram and Snapchat.


Here are some of the most-liked recent posts on UM-Dearborn's social media channels.



**dearbornwolverine**[Follow](#)

**dearbornwolverine** Acceptance packets have started going out to Future Wolverines! Congrats to Brendan, who is excited to be a student in the College of Engineering and Computer Science. #GoBlue! (via @dmarkwood76) #DearbornWolverine #UMDearborn



**umdearborn**[Follow](#)

**umdearborn** Happy Star Wars Day! Here is one of our newest grads posing with super fan @wolverinestrooper outside Crisler Center on commencement day. May the 4th be with you! #StarWarsDay #UMDearbornGrad #UMDearborn #DearbornWolverine (by @wolverinestrooper)

**kayla.ferg** @devoncaleyy did you see this!?!?

**devoncaleyy** @kayla.ferg no! I'm so sad haha I met the wolverine trooper at comic con last year though haha

200 likes  
MAY 4



**dearbornwolverine**[Follow](#)

**umdearborn** Members of the Intelligent Systems Club welcome U-M President Mark Schlissel as an honorary member of the team as they discuss their autonomous snowplow during an Engineering Lab Building preview event.

OCTOBER 26



**University of Michigan-Dearborn**  
September 22 at 1:27pm

Happy Fall! 🍁🍂🍃



Like Comment

**University of Michigan-Dearborn** shared UM-Dearborn Wolverines Hockey's post.  
May 11



**UM-Dearborn Wolverines Hockey** added 8 new photos.  
May 9

Members of the Men's Hockey Team visited patients at Beaumont Hospital-Dearborn last week! #bornBLUE

Like Comment Share



**Skylia Kroll**  
@skylia\_kroll

i loved @UM\_Dearborn's snapchat story today because it just gave dozens of reasons why it's great to be a wolverine. 🍌💙 #wolverinepride

12:54 PM · 26 Jul 2017

1 Like



The Path to

# SUCCESS

Students gain from holistic approach to education

**"Congratulations!  
You've been accepted to the  
University of Michigan-Dearborn."**





➔ Opening the envelope from UM-Dearborn, Saleemah Morris read her letter. Morris—a nontraditional student in her mid-30s—said she studied the letter and waited for it to sink in: She was now a part of the Maize and Blue family.

“I was so happy and nervous at the same time. I was shaking a bit. I called my sister and registered for orientation. I was like a giddy high school student,” said Morris, a single mother who challenged herself to earn a four-year degree and better her family’s future. “But as excited as I was about that letter, I started to think, ‘This isn’t a dream anymore. It’s real. How, with everything going on in my life, am I going to make this happen?’”

“I knew it was an amazing opportunity and I was determined, but I’d be lying if I didn’t say a little bit of worry started to creep in.”

Morris is not alone in her concern. The transition to college life isn’t always easy.

But UM-Dearborn is working with students to set them up for success both now and in the future. The university has created several new initiatives to help students acclimate and thrive on campus.

Office of Student Success Director Amy Finley said units across campus are collaborating to ensure

**“We’re working to put students on the right path and then letting them navigate. And if they find themselves a bit lost, we are here to help them get back on track.”**

that students find the support they need—support that begins even before their first class—to encourage maximum success.

“Research shows that once students become involved in the university community, they are more likely to stay and persevere until they earn their diploma,” she said. “We’re working to put students on the right path and then letting them navigate. And if they find themselves a bit lost, we are here to help them get back on track.”

Morris, who enrolled in 2013, echoes Finley’s statement. She became the president of American Association of University Women. She joined the

Pre-Law Association. And she landed two internships—with UM-Dearborn’s Campus Safety and the Washtenaw County Office of the Public Defender.

“I found so many people on this campus ready to help me to not only reach my goal, but also to find my voice,” Morris said. “It got to a point where I just knew I was in the right place—a place that would help me make an impact on a larger level. And I would not deviate from the path, no matter how difficult things got.”

## START here.

As an incoming freshman, Matthew Hundley was fairly certain of his academic path. Hundley went to classes and did well, but something didn’t feel quite right.

But with assistance from his START (Student Advising and Resource Team) adviser, things began to fall into place.

The START office opened in fall 2016 to help students identify a path to graduation, provide the tools and knowledge to amend and change this plan and ultimately give students the confidence and skills to take ownership over course selection.

Hundley—now a sophomore considering a career in instructional technology—said that after several conversations with his adviser, James Schulert, he was able to discern a career path he’s excited about. Hundley also gained personal and professional skills and confidence.

“We had casual conversations about my interests and James explained what instructional technology had to offer,” he said. “I’ve always been interested in education, but knew classroom teaching





wasn't right for me. But the corporate education world felt like a perfect fit."

The START office includes advisers from each campus college, so students can get answers to questions about many different majors in a single location.

**"START has given me a solid foundation within the university and confidence in the choices I'm making about my academic career."**

"Our job is to get students connected to resources when they first get here," said START Director Andy Beverly. "We'll suggest faculty members who share similar interests, talk to students about internships and co-ops they might want to seek out in the future and tell them about organizations they may want to join based on what they enjoy."

START advisers assist freshmen and transfer students in getting acclimated to campus. Beverly hopes students will view the office as a place where they can stop in and ask anything, whether it's advice about academics, help making campus connections, or finding a sympathetic ear to share concerns with.

During START's inaugural year, the office conducted more than 4,000

appointments and met with 1,885 students, including Hundley. For the second year, more than 2,000 students are assigned to START advising.

"START has given me a solid foundation within the university and confidence in the choices I'm making about my academic career," Hundley said.

## Move ahead.

College is a place for students to learn new things, engage with new people, and explore new ideas and concepts. And with the help of a newly created university network, it's also a place to grow through supportive educational opportunities.

With all student-advising offices in a central location—the University Center—advisers work together to keep struggling students focused on their goals.

Sophomore May Daoud is one of the students who has benefited from the office's advising services. After a lower-than-expected GPA during her first semester, Daoud contacted the Office of Student

Success, which offers free one-on-one and group tutoring, success coaching and supplemental instruction.

Daoud, who has a merit-based Opportunity Scholarship, said she didn't have to study in high school and made the mistake of expecting she could do the same in college.

"I was so embarrassed about my grades that I didn't know what to do or who to talk to," she said. "And really, I didn't want to talk about it. I just wanted to hide from what happened."

At a meeting with Office of Student Success staff, Daoud reflected on the previous semester and came up with a plan for improvement.

"No one was demeaning or mad. They just laid it out for me. I would lose my scholarship. I would lose time and money retaking classes," she said. "They told me about tutoring, SI [supplemental instruction] and the Math and Writing Center. They told me this in a way that I knew I could trust them and be open with them if I needed help in the future."

Daoud changed her study habits, regularly attended SI sessions and finished her second semester with a 3.2 GPA, just short of the Dean's List.

"I felt my confidence come back," she said.

## Level up.

Average. That word sums up how Candice Tudor used to feel about her college performance and experience.

But that's not the word she'd use anymore.

When Talent Gateway Director Laurie Sutch spoke with Tudor in the University Center last fall



**LEVEL UP!**  
Check out the  
Talent Gateway  
and get more  
involved  
in campus  
activities.



**“My grades improved, and professors have commented on how I carry myself differently. I did well in a job interview and my internship adviser later told me that she admired my level of professionalism.”**

and handed her a flyer about the Talent Gateway initiative, Tudor said she decided to try it out.

The senior is now the president of a student organization and a research assistant, and has just finished an internship.

“I couldn’t find my stride here. I wanted to contribute and excel, but I wasn’t sure how,” said Tudor, a junior. “Then Laurie asked me to consider checking out the Talent Gateway. It changed everything for me. I don’t view difficult or mundane things negatively. I look at the opportunity within them.”

The Talent Gateway, launched in fall 2016, is a web-based gameful learning platform where students earn points toward an M-Talent distinction, which is an honor noted at graduation and on official transcripts. Within the Talent Gateway’s virtual community, students interact with learning modules, engage in discussion boards, identify resources and collaborate with mentors.

“Talent Gateway challenges are opportunities for students to creatively reflect on and leverage what they are already doing in class, at home and at work, giving them a competitive edge as they hone their creative problem-solving skills,” Sutch said. “Students

choose which challenges to pursue. Because the program is web-based, students can do challenges any time, anywhere.”

The challenges—which include items like eating lunch with someone you don’t know, joining an organization and doing a mock interview—gave Tudor a new view of her university and of herself.

“My grades improved, and professors have commented on how I carry myself differently,” she said. “I did well in a job interview and my internship adviser later told me that she admired my level of professionalism. Because of the Talent Gateway, I’m no longer drifting along. I’m focused. The Talent Gateway showed me that anything can be a growth experience.”

## **Stay the course.**

When Claire Lareau was in first grade, her teacher paired her up with a special-needs classmate to help him with classroom tasks, reading and social development.

“I didn’t think anything about it. He needed help and I was happy

to give it,” Lareau said. “When I got older, my mom shared with me that my teacher had said I worked well with him.”

Today, Lareau is a freshman pursuing an elementary education degree with a focus on special education. She wants to get back into the classroom to help those with developmental needs. And Lareau—who is taking 15 credit hours her first semester and plans to take classes year round—wants to do it as quickly as possible.

For students like Lareau, UM-Dearborn offers a Fast FOURward Scholarship initiative to encourage students to reach their graduation goal sooner.

The scholarships are one component of the Fast FOURward program, a new initiative from the Office of the Provost. Fast FOURward’s path to a degree in four years comprises a 15-credit-hour course load per semester combined with working fewer than 15 hours a week. Those who commit to more than 12 credit hours a semester also get a tuition break of nearly \$100 per credit hour.

Additionally, students who take 24 credit hours in the fall and winter semesters are eligible for a scholarship to offset the cost of taking courses in the summer. This past summer—the first year the scholarship was available—466 stu-







dents received the scholarship offer, with 85 percent accepting the offer.

While it won't work for everybody, students who have the ability to dedicate more time to school should weigh the positives of four-year degree completion, said Office of the Provost Project Coordinator Rachelle Justice.

"The benefits are so great. You can earn so much more money and pay so much less in tuition

if you graduate sooner," said Justice, noting students can save more than \$9,400 in tuition and fees when they graduate in four years instead of five. A four-year timeframe also increases the likelihood of earning a degree: Recent statistics indicate that the longer it takes to complete college, the lower the rate of graduation. Lareau, who is paying her own way through college, said the money saved and the goals achieved are worth the year-round commitment.

"The break in tuition is an incentive to keep the momentum going so I can graduate, get into a class-

room and help kids as soon as possible."

## Almost there.

What happens when a student gets so close to earning a diploma—and suddenly, an obstacle stands in the way?

For some—like Saleemah Morris—newly created funds in the College of Arts, Sciences, and Letters (CASL) and College of Business (COB) clear the way to commencement. The need-based award varies depending on the student situation.

From the time she opened her admission letter, Morris told herself that even though it wasn't going to be easy, she would fulfill her dream of earning a bachelor's degree.

"I didn't have a chance to do this when I was younger. And nothing was going to stand in my way now. Even with the responsibilities that I have, earning my degree was a priority. It was important to me and my family," she said.

But, even with Morris' can-do attitude, her degree pursuit nearly ended when she became ill and needed repeated blood transfusions.

"I lost my job, my car, my house. I was worried about losing my future too. I was so close to earning that diploma. I felt stuck," Morris said.

The CASL award was established last fall. The impetus, said CASL Dean Marty Herschok ('85 B.A.), was the stories he heard about students who were just short of fulfilling their degree but couldn't finish because of depleted financial resources.

"No matter the cause, the result is always the same: Students—many of whom come from underrepresented groups and/or economically challenged populations—drift away from the university without ever completing their degree," he said. "For these students, the negative effects are double. They lack the credential needed to ensure a strong economic foundation for themselves and their family, and they are denied the personal fulfillment of meeting an individual transformational goal."

Morris' health is now improved, and so is her outlook on the future.

She graduated in August and credits her alma mater on helping her achieve her "forever Wolverine" status.

"I was always able to help myself figure things out before I got sick. All the determination in the world couldn't have helped me. But the Get to Graduation Fund did," she said. "When I had fallen, the university lifted me up. I cannot even put into words how grateful I am.

"I will forever say, 'Go Blue.'" **M**

**"The break in tuition is an incentive to keep the momentum going so I can graduate, get into a classroom and help kids as soon as possible."**



Way to go! You are now officially part  
of a 575,000+-strong alumni family.





# ON THE JOB



MAWJ MOHAMMED IN OTTAWA



## Students gain a competitive advantage—and make a positive impact—through internships

University of Michigan-Dearborn was built on a foundation of experiential learning.

Its cornerstone was laid with a commitment to provide real-world skills and experience. Students would participate in off-campus work experiences in addition to their academic courses.

That was in 1959. Today, nearly 60 years later, the focus hasn't changed—it has only grown stronger.

What began as a way to help the area's expanding automo-

agencies and nonprofits throughout the region to provide students with more than 700 co-op and internship opportunities annually. Through college-level internship/co-op offices and programs, students can find the right fit for their interest and skills.

They also could find full-time employment after graduation.

According to the National Association of College and Employers 2017 Internship and Co-op Survey, more than 75 percent of employers say that the primary

students, making an immediate impact in their chosen field is equally important. Whether working to improve public health, build safer cars, or enrich the community with art, UM-Dearborn interns want to achieve good things.

One hands-on experience at a time.

### Real-world experience

When **MAWJ MOHAMMED** was six months old, her family fled the war in Baghdad. Years later, in middle school, she became a U.S. citizen. Today, trying to better understand how the events of her life unfolded, Mohammed is majoring in political science and psychology.

From campaigning to voting, Mohammed is committed to being involved in the political life of this country. But she also wanted to see the political arena from another viewpoint: an international one.

Mohammed took part in the Ottawa Political Internship, a five-week experience where University of Michigan students get an up close and personal look at Canada's parliamentary government. The program, offered through UM-Dearborn's College of Arts, Sciences, and Letters and UM-Ann Arbor's College of Literature, Science, and the Arts, has been offered for nearly 35 years.

Working for Member of Parliament Julie Dzerowicz, Mohammed's responsibilities included researching Bill C-16, an Act to Amend the Canadian Human Rights Act and Criminal Code, and reviewing the Canadian government's 2017 fiscal plan. She

also observed Canadian protests, attended political receptions and even shook hands with Prime Minister Justin Trudeau.

Mohammed is grateful for the opportunity to learn about America's northern neighbor, learn about a different political system and gain a better understanding of the international community.

"There are times when a country's decisions may be out of the hands of the people," said Mohammed, who only has two baby pictures because her parents had to flee Iraq literally overnight. "But I've learned that other countries leverage their economy or position in the world to have their say on behalf of the people. It is something that I didn't realize before this experience. It's helped me appreciate how connected we all are."

### Sky-high success

Seeing the NASA logo in the College of Engineering and Computer Science co-op/internship office, then-freshman **RABAB ALRAYES** thought to herself, "I'm going to work for them."

Three years later, she did.

While interning at the Kennedy Space Center in Florida, Alrayes helped create an interactive mobile app encouraging employees to explore the 140,000-acre complex. The app employs geocaching, which uses GPS technology to find specific locations.



RABAB ALRAYES

tive companies find employees has evolved into a program that produces stronger job candidates with more marketable skills in a variety of areas. UM-Dearborn collaborates with companies,

goal of their company's internship program is to recruit college graduates for full-time work.

A job offer at the end may be the most visible benefit of an internship. But for many UM-Dearborn







“So many people came to work and went right to their cubes,” said Alayres, an electrical engineering senior. “But there is so much to see there. The app was to get people outside, walking around and learning about the history that surrounded them.”

She also worked with a group developing lightweight augmented-reality glasses for astronauts and rocket technicians.

“The glasses allow for information to be shared visually and without the need to hold a book,” Alayres said, noting they would be small enough to fit under an astronaut’s visor. “For example, technicians communicating with an astronaut can give step-by-step instructions on finding a solution. The glasses will list those instructions and allow them to be checked off when complete.”

Alayres completed her four-month NASA internship in 2016 and followed that with an internship at Intel this past summer. She was able to land two high-profile positions, she said, because of support from the internship and co-op office and her UM-Dearborn coursework.

“The advice and education I was given from professors and the internship and co-op office gave me the confidence I needed to push me in the right direction,” she said.

## Supply and in demand

After dislocating his shoulder as a teen, **NICOLAS MAISANO** spent time in an emergency room. The only thing he remembered seeing was the hospital bed.

Today—after completing an internship at Henry Ford Health System—the supply chain management senior sees a lot more. He notices workrooms, and closets for cleaning supplies and uniforms. He assesses how items are organized, notes incoming inventory points and more.

Maisano connected with Henry Ford Health System during a College of Business Internship and Career Management Center networking event. Once on board, it didn’t take long for him to start contributing.

After visiting the four main hospital sites and the medical supply distribution centers, Maisano suggested updates for hospital standard operating procedures. One of his recommendations involved creating a program to locate rarely used items in inventory.

“I developed a moving spreadsheet that could sort through 100,000 or more lines of information that would show which items hadn’t been ordered in two months,” he said. “With different items being used at each hospital

chain. But it was the internship that confirmed his career choice.

“I look forward to going to work every day. I’ve seen why this work is so important. Getting the right supplies in the right amount to the right areas gives patients the best care possible at the time they need it most.”

## Cultivating a future

Kale. Squash. Tomatoes. Senior **ALICIA ZELAYA** works in the Joy-Southfield Community Development Center’s garden, picking the ripe produce for an upcoming farmer’s market.

But it’s not her green thumb that encouraged her to apply for the internship; it was her helping hands.

Zelaya, a public health and education major in the College of

organizing a workshop about Type 2 diabetes for adults.

“When I got into the community and saw how much good was being done, how appreciated the work was and how it made a difference to the people here, I knew I was in the right place,” she said.

Growing up in southwest Detroit, Zelaya remembers community groups coming into her neighborhood. She treasures childhood memories of her interactions with them, from learning how to play an instrument to reading Shakespeare.

Now, when she sees kids enjoy themselves through her Joy-Southfield activities, it assures her that she’s giving back what she’s received.

“I personally know how much the



NICOLAS MAISANO

location every day, that information changes regularly. I used a lot of advanced Excel I didn’t even know existed before.”

Maisano’s UM-Dearborn courses gave him the foundational knowledge on the logistics of the materials-to-end users supply

Education, Health, and Human Services, spent her summer working at the Detroit-based nonprofit.

In addition to getting vegetables ready for the community farmer’s market, she’s also been involved in creating programs for neighborhood kids and

people of Detroit, especially the kids, need inspiration and need to know how much we care about them. They need more than words; they need action,” she said. “Now that I’ve had a taste of what I am going to do after graduation, put me out there. I’m ready.” **M**



## Partners in the Process

From experiences on campus to championing internships and co-ops within their organizations, alumni share how this essential step puts a graduate above the rest.



**KYLE MILLIMAN** ('14 B.S.E., '14 B.S.E.Mech.)

*McLaren Engineering, Product Engineer*

I was an intern four times at McLaren, which ultimately led to the position I am in now.

Students who participate in internships come to the workforce more prepared and ready to hit the ground running on day one. It is beneficial not only for the student, since they get involved with projects faster, but also for the company since less training may be required initially.



**TONY ALLEGRIANA** ('82 B.A.)

*Bodman PLC, Communications Manager*

Treat your internship as if it is the first step in your career. Perform as if you had to keep the job for the rest of your life. You are there to learn and to impress.

I did two internships, one at the Smithsonian Institution in Washington, DC and one with the Ontario Legislature in Toronto. Both helped me achieve a level of confidence and self-motivation that benefited me tremendously early in my career.



**NICK SITARSKI** ('04 B.S.E., '09 M.S.)

*Toyota Motor North America, Senior Automated Driving Evaluation Engineering Manager*

The co-op I did at SY Systems Technologies allowed me to begin learning how to put the fundamental engineering skills I learned in school to use in a business environment.

Engineering school is great for teaching fundamental engineering skills, however, sometimes the best ways to learn how to put those skills to use is through a co-op or internship.



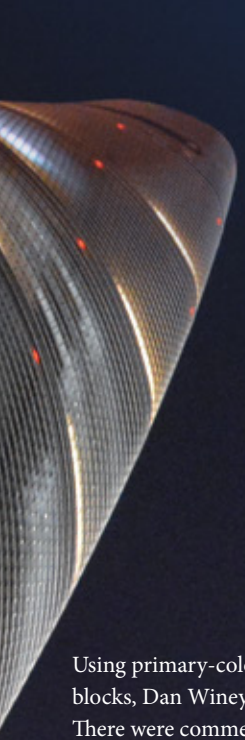


# REACHING FOR THE SKY



GLOBAL  
ACCOLADES FOR  
ALUMNUS COME  
FROM LISTENING,  
LEARNING





Using primary-colored wooden blocks, Dan Winey created a city. There were commercial buildings, roads, homes and more. The city was 4 feet high by 15 feet wide.

Winey was 10 years old.

He'd build his city, and as soon as he was done, he'd knock down his creation, rake the burnt orange shag carpet in his family's living room and start all over again.

"I was the oldest of 11 kids and I took up the whole living room. But Mom encouraged it," said **WINEY** ('82 M.B.A.). "I kept wanting to make it better and better."

Winey's 30-year career reflects that early passion for design and architecture. And what started in his Detroit home now has an international component.

Winey recently led the design of the 128-floor Shanghai Tower—the tallest building in China and the second-tallest in the world. He's contributed to urban development around the world and has earned awards for his efforts.

"When I was a boy in Detroit, I had no idea where my interest would take me," said Winey, who has served as first Chairman of the Board after the founder and is currently the chief operating officer for San Francisco-based architecture and design firm Gensler.

"I have been blessed over the years to have traveled throughout the world and lived in Asia for almost a decade building our practice. Now, thanks to the places I've been, the people I've met and the lessons they've taught, in 100 years my great grandchildren will be able to see my work. It has been a joy to contribute to making the world a better place."

## Towering achievement

At 128-floors, the Shanghai Tower is a vertical city. The mixed-use structure has space for 21 17-story sky parks, retail, and entertainment, as well as museums, cultural centers and the arts. On any given day, the building will house 35,000 people.

There is no other building like it in the world.

Not only is it impressive in scope, it's also energy efficient, as the certifications from the China Green Building Committee and the U.S. Green Building Council demonstrate. There are 200 vertical-axis wind turbines located near the top of the tower; the building's heating and cooling systems use geothermal energy sources and the structure is designed to capture rainwater for use inside the building.

Winey is passionate about designing livable cities, as well as sustainable building and urbanization principles. He first realized how important it was to think holistically while

traveling to China, India and other parts of the world.

"Once you've seen cities with populations in the millions in a relatively small land area, you think differently. There isn't a luxury of space and resources like we have in most of the U.S.," Winey said. "When space and resources are a concern, the goal as an architect, in my opinion, is to leverage creativity to design unique solutions to urban problems. Something that will make everyone's life better and stand the test of time."

Winey said incorporating neighborhood services—transportation, education, business, recreation and public safety—into one cohesive space is a viable idea because it can condense limited resources and increase a sense of community.

"Imagine breaking the boundaries of cities and buildings. Take all the great elements of the





“Neighborhoods don’t need to have 400 single-family homes, schools across town and strip malls. Just because that is how things have been done doesn’t mean we can’t start to envision our communities differently.”

city—its great textures and fabric, character and culture—extract it and think about pulling it into the vertical plane,” he said.

“Neighborhoods don’t need to have 400 single-family homes, schools across town and strip malls. Just because that is how things have been done doesn’t

mean we can’t start to envision our communities differently.”

## Creative guidance

It’s not just Winey’s design skills that have gotten him noticed—it’s his commitment to helping educate people in the communities where he builds.

Winey supervised Gensler’s Pacific Northwest and Asia Regions for nearly 20 years, offering guidance to managing directors in 46 international offices. He expanded Gensler’s presence to Beijing, Shanghai, Hong Kong, Bangkok, Bangalore and more.

When he started working on the Shanghai Tower in 2007, Winey moved to China.

“At that time, it was common for a design firm to win a commission and bring the work back to their U.S. office,” he said. “I didn’t want to do that. I wanted to move there and live and work among the people I was designing it for.”

The Gensler team also set up a mentoring program in their Shanghai offices, with the goal of encouraging hiring more Asians. When Winey began the Shanghai Tower project, only 10 percent of the Shanghai office designers and architects were Asian. Today, that figure is 90 percent.

“We taught them everything we know on how to design and construct great buildings. They taught us about the culture and values in the place where they





were born, raised and now have families,” Winey said. “I learned from them and they from me. Together, we designed many buildings that we are all very proud of.”

The city of Shanghai awarded Winey the 2017 Magnolia Silver Award, an honor given annually to non-nationals who make a significant contribution to Shanghai in a way that supports the culture, values and aspirations of the Chinese people.

With the Shanghai Tower completed, Winey recently moved back to the United States. But his 10-year-long overseas experience has transformed the way he sees urban planning.

“I believe urban design is the single most important influ-

encer of the human experience, achieving its greatest potential in developing economies,” he said. “Seeing how structure can accommodate our growing population is a benefit to us all.”

## Maize and Blueprint

As a youth, Winey didn’t set out to become an administrator. But after studying architecture as an undergraduate, he began researching graduate programs and decided to enroll in a UM-Dearborn Organizational Behavior class with the late Business Administration Professor Emeritus Richard Krachenberg.

Winey remembers working for hours on his first paper for the course. He created diagrams and pasted images to accompany the typewritten copy.

The result? Writing across the top in red pen that said, “Please resubmit.”

Stunned, Winey saw Krachenberg after class. Krachenberg, a long-time faculty member who was also then dean of the College of Business, said he saw the potential in Winey. But to leverage it, there needed to be a shift to clarity and efficiency in his communication.

“As an architect, I used imagery to express myself,” Winey said. “He challenged me to think differently. He taught me the importance of clear and efficient communi-

cation. He taught me the power of choosing the right words.

“After his class, I also realized the connections there were between a business-based education—understanding finances, marketing, branding—and architecture. My Michigan business degree, by far, was one of the best and smartest things I’ve done.”

And with the experiences Winey’s had, that says a lot.

“When I was making cities in my parents’ living room I never in my wildest dreams thought I’d be doing what I do today,” he said. “I’ve been able to learn new things from so many people in so many different places. It’s made life extraordinary.” **M**



# AfterSchool

Giving your all and giving back

## WHY I GIVE



## In with the new

**T**HE ENGINEERING LAB BUILDING'S ORIGINAL FACILITIES WITH AT-CAPACITY CLASSROOMS SOON WILL BE A THING OF THE PAST.

And **MARK RITZ** ('75 M.S.E.) and Lee Gorman are happy to have an important role in that transformation.

With the focus on 21st-century education, industry partnership and research space, the couple wanted to help transform the area that was once "home" for Ritz at the beginning of his career.

"There are many great aspects to this campus—the professors, the natural areas, the welcoming feel—but the Engineering Lab Building (ELB) is just not one of them. But this is going to change," said Ritz, who took night courses when he worked as a Ford Motor Co. engineer. "We are pleased that future generations of engineering students will get an education in this facility. The access to the resources in the new building will transform lives, and we are glad to be a part of that."

Thanks to a gift made by Ritz and Gorman, the new ELB will also provide students with designated spaces to unwind, study in comfort or meet with classmates.

The Mark Ritz and Lee Gorman Group Study Room, located on the first floor, will provide a collaborative space to share ideas, conceptualize projects and more.

Regular supporters of initiatives on Gorman's home campus at UM-Ann Arbor, the pair are eager to help reshape the campus that gave Ritz an advantage in the engineering world.

Ritz—who later in his career worked on the business side of industry at Ford, Lear Corp., Siemens and others—said his educational background gave him both knowledge and credibility when working with company engineers.

"I ended up going in a more business and marketing direction, but a lot of what I did was working closely with those in the advanced engineering field," he said. "Having an engineering graduate degree from UM-Dearborn gave me instant credibility and helped me interface effectively. It absolutely contributed to my success."

The couple said now is the right time to share their successes and pay it forward.

"We are both passionate about STEM education and the University of Michigan. This particular project will make a difference for the students, industry in the region and beyond," Gorman said. "What will happen at the new Engineering Lab Building will transform lives for years to come—and that's the Michigan spirit." **M**

## BE A VICTOR

### FOR UM-DEARBORN

At UM-Dearborn, students committed to academic achievement and community engagement earn degrees that will empower them to realize future success.

The Victors for UM-Dearborn campaign ensures access to this education and faculty and staff resources to provide them with a transformational experience.

Our generous donors have already given more than \$36 million to support the campaign, including nearly \$21 million for student support.

But there is more to do. The need for funding is critical.

You can help us fulfill our campaign priorities:

- **Student Support**—expanding access to the academic excellence and career preparedness that a UM-Dearborn degree provides.
- **Educational Initiatives**—developing innovative programs that enhance academics and equip students to succeed in today's competitive economy.
- **Learning Environments**—creating modern, inspirational spaces that encourage active learning and collaboration and enable pioneering research.
- **Faculty support**—attracting and retaining top educators and scholars who will challenge and inspire our students to achieve their full potential.

We need your support to reach these goals and ensure UM-Dearborn students continue to receive an exceptional education.

Make your gift today!



**VICTORS FOR MICHIGAN**  
TRANSFORMING STUDENTS: POWERING OUR REGION

[umdearborn.edu/giving](http://umdearborn.edu/giving)

Office of Institutional Advancement  
313-593-5130



## Guiding light

### Alumna led effort to illuminate Detroit

**THE ENERGY ON WALL STREET WAS PALPABLE. AFTER HEARING THE BUZZ OF DEAL-MAKING AND RINGING PHONES, THE MOMENT HAD ARRIVED FOR NICOLETTE CARLONE ('84 B.S.A.) AND THE PUBLIC LIGHTING AUTHORITY TO TAKE CENTER STAGE. WOULD WALL STREET HELP GET DETROIT'S STREETLIGHTS BACK ON?**

Carlone, then the chief financial officer of the Detroit-based Public Lighting Authority (PLA), sat in a Manhattan conference room and watched a screen that showed the municipal bond purchases as they came in. Sales were slow and steady at first. Then the list began to scroll with buyer names. The response was positively overwhelming.

In less than an hour—because of the great demand by investors for the 30-year bonds—Carlone and the PLA hit their \$185-million goal, enough for 65,000 streetlights.

"The energy was unbelievable. I've never felt anything like it. It was

such a 'wow' moment," said Carlone, a former General Motors CPA who also ran her own consulting firm before joining the PLA. "At that point, we knew it was going to happen. I saw how people were united in this cause. Detroit's lights were going to come back on."

And they did.

The Detroit Public Lighting Authority was authorized by the Michigan Legislature in December 2012 and approved by the Detroit City Council to design and implement a three-year plan, starting in 2014, to improve the city's lighting system.

In that time span, the PLA relit all of Detroit, from the neighborhoods to the major thoroughfares. By the end of 2016, the project was complete, with energy-efficient LED lampposts illuminating the entire city. Detroit is also the largest American city to have 100 percent LED public lighting.

"More than 40 percent of Detroit's streetlights were out when we started. Getting them back on was a safety concern and an important way to establish community and trust," said Carlone, who was named CEO of the lighting authority in February 2016. "We wanted to show people that we were going to follow through in what we said we'd do. That's why we did the neighborhoods first."

Carlone remembers flying home in January 2014 and looking down at the city. She lamented to her husband how dark Detroit seemed and wondered what could be done. The following day, she got a message



through the LinkedIn social network asking if she'd be interested in joining the PLA team.

"It was unbelievable, really. I did financial consulting and they needed someone with experience—someone who could hit the ground running since a three-year timeline doesn't give room for a learning curve," she said. "All I can say is that it must have been meant to be."

Carlone accepted, seeing the position as an opportunity to make a difference close to home.

"In the end, because of the great team I had, we were able to relight the city ahead of schedule and under budget," she said. "It was one of my career highlights. I saw everyone come together with the goal to make the city a better place. Because when Detroit comes back, we all benefit." **M**

## HOMEcoming 2017

### Hail to the Victors

**Homecoming 2017 had wins for alumni, students, football fans**

*Mark your calendars for Homecoming 2018: Oct. 5–7.*



CHANCELLOR DANIEL LITTLE (BACK ROW, RIGHT) CONGRATULATED THE 2017 ALUMNI DIFFERENCE MAKER RECIPIENTS. FRONT ROW FROM LEFT: COLLEGE OF EDUCATION, HEALTH, AND HUMAN SERVICES ALUMNUS OF THE YEAR RASHID FAISAL, JEANNETTE SCHUMACHER ALUMNI SERVICE AWARD RECIPIENT LEAH JOHNSON-OLAJIDE, DISTINGUISHED ALUMNA OF THE YEAR MARYANN WRIGHT AND COLLEGE OF ARTS, SCIENCES, AND LETTERS ALUMNUS OF THE YEAR JEFFREY GOLOTA. BACK ROW FROM LEFT: COLLEGE OF BUSINESS ALUMNUS OF THE YEAR THEODORE PLAFCHAN, YOUNG ALUMNA OF THE YEAR KELLY STEELE AND COLLEGE OF ENGINEERING AND COMPUTER SCIENCE ALUMNUS OF THE YEAR RONALD MODRESKI.



THE STUDENT TEAM (LEFT) PUT UP QUITE THE CHALLENGE, BUT THE ALUMNI TEAM CLAIMED THEIR SECOND CONSECUTIVE VICTORY DURING THE MAIZE AND BLUE BOWL.

ALUMNI GOT INTO THE GO BLUE! SPIRIT AT THE MICHIGAN FOOTBALL WATCH PARTY DURING VICTORS FUN DAY. U-M DEFEATED THE RUTGERS SCARLET KNIGHTS, 35-14.



WOLVERINES OF ALL AGES GATHERED ON CAMPUS SATURDAY, OCT. 28, FOR GAMES, CRAFTS AND ENTERTAINMENT DURING VICTORS FUN DAY.



## HOMECOMING 2017



STUDENTS TESTED BOTH THE CHANCELLOR'S POND WATER AND THEIR ENGINEERING SKILLS DURING THE CARDBOARD BOAT RACES, A UM-DEARBORN HOMECOMING TRADITION.



GRADUATES FROM THE CLASSES OF 1962-1967 CELEBRATED THE MICHIGAN LEGACY BY SHARING STORIES OF THEIR TIME ON CAMPUS AT THE GOLDEN JUBILEE REUNION.





## SCHOOL TIES

# Five lessons learned: Flying High



The Transportation Security Administration (TSA) is a 60,000-person organization in 440 airports nationwide. The agency interacts with more than 2.2 million people a day, on average.

And its Instagram account was named among the Top 5 on a *Rolling Stone* magazine “best of” list—higher than Beyoncé’s.

A governmental agency beats Beyoncé on Instagram? To many, that’s a strange concept. For **JENNIFER PLOZAI** (’01 B.G.S.) it’s all in a day’s work.

As TSA’s director of external communications, Plozai wants to reach

travelers on the go. She managed the complete overhaul of the TSA website, focusing on mobile functionality and improving the user experience. She also spearheaded the creation of AskTSA on Twitter and Facebook Messenger.

Since TSA is the government agency with the most face-to-face public interaction, Plozai said it was important to add real-time, user-friendly communication to assist travelers. She manages a command center that sends more than 1,000 responses to social media users per day. Their digital presence has increased TSA’s visibility, which helps educate, build trust and create a public partnership.

Here, she shares a few things about flying high in your career and flying through airport security.

### 1. Pursue your passions.

Enlisting in the Coast Guard after high school gave me a way to serve my country and make a difference. After working at a small-boat search and rescue station in St. Petersburg, Fla., I was stationed

in Alameda, Calif., where I went into communities and talked on behalf of the Coast Guard about boating safety. During that time, I became interested in helping organizations communicate on a national scale. And so I used my GI Bill to enroll at UM-Dearborn and study communications and public affairs. Following your passion is a big part of choosing a path that’s right for you.

### 2. Persistence is key.

If I know something will benefit the agency I work for, I’ll be persistent in pursuing it even in the face of challenges and roadblocks. Due to those efforts, our AskTSA social care program has been recognized by the White House, DHS and the Partnership for Public Service for building a 21st-century government. I also was invited to Camp David in 2016 for the White House Office of Science and Technology Policy Summit, which brought together “change-makers” in government to address challenges.

### 3. Perception outdistances performance.

Any organization can accomplish great things, but if the public doesn’t know about it or isn’t engaged, it isn’t going to change the perception. Meaningful communications, both external and internal, are critical to success. With our Instagram, we use humor to engage people who wouldn’t otherwise be interested in the TSA mission. With AskTSA, we talk in a real, candid way with passengers. We hear from passengers every day who say that



we’re changing the way they see TSA, and that feels really good.

### 4. Turn negatives into positives.

We had a traveler going through cancer treatments who had a bad experience during security screening. She was sensitive about being touched, especially near her wig. I heard her talking about her experience on television. She was advocating for others with medical conditions; she wanted people to understand what to expect during security screening and what resources are available. I reached out to her and we’ve worked together on ways to educate others. One example of that joint work is a video for our “TSA Cares” series, which provides travel tips and resources for people with medical conditions and special circumstances. We all make mistakes. It’s how you react that matters.

### 5. The early bird catches...the plane.

To prepare for travel, I make sure I leave prohibited items at home, pack my bags in an organized way, arrive early and wear slip-on shoes—unless I have TSA PreCheck on my boarding pass! Traveling, in general, can be a high-anxiety time and preparing and arriving early helps get you to your destination a little easier. **M**

  Send a picture to @AskTSA or Facebook.com/AskTSA to know if an item is allowed on the plane.





## CLASS NOTES

**KEEP YOUR CLASSMATES UPDATED.** Exciting things happening in your life? Changed jobs? Got married? Had kids? Received an award? Send your Class Notes to [legacy@umd.umich.edu](mailto:legacy@umd.umich.edu). You also can visit our website at [umdearborn.edu/alumni\\_stay\\_connected](http://umdearborn.edu/alumni_stay_connected) and fill out our form. We'd love to hear from you!

- f Facebook** University of Michigan-Dearborn page and University of Michigan-Dearborn Alumni page
- t Twitter** @UM\_Dearborn and @UMDearbornAlums
- in LinkedIn** University of Michigan-Dearborn Alumni Network group
- Instagram** umdearborn and um\_dearborn\_alumni
- Snapchat** um\_dearborn

### COLLEGE OF ARTS, SCIENCES, AND LETTERS

#### '80s

**WILLIAM RAPAI** ('82 B.A.) is the author of *Brewed in Michigan: The New Golden Age of Brewing in the Great Beer State*, his third book.

**DAVE NORWOOD** ('89 B.S.) spoke at the ribbon cutting for the Dearborn Bike Share program Zagster Unveil.

#### '90s

**CYNTHIA HENRY** ('93 B.A., '01 Teach. Cert.) was honored by the National Association of Professional Women (NAPW) as a 2017-2018 inductee into its VIP Woman of the Year Circle.

**MATTHEW NEWCOMB** ('96 B.A.) is co-founder and managing member at Omega Consulting International.

**ALICE KONDRACIUK** ('98 B.A.) is an infrastructure engineer in the enterprise engineering department at Facebook.

#### '00s

**MARIAM BAZZI** ('00 B.S.) was chosen to participate in the new Environmental Justice Work Group, which will work to better understand current policy and develop guidelines to better serve all Michiganders.

**ZENNA ELHASAN** ('00 B.S.) received the Rising Star Award from the American Arab Chamber of Commerce.

**DANIA BAZZI** ('01 B.S., '03 M.A.T.) is the superintendent for Ferndale School District.

**MEGAN FENECH** ('02 B.A., '04 M.A.T.) is the principal of A2 STEAM Northside.

**ANDREW DUBYCKYJ** ('08 B.A.) released his debut album *I'll Give You My Love* under his artist name, Andrijko.

#### '10s

**ABDULLAH HAMMOUD** ('10 B.S.) received the Rising Star Award from the American Arab Chamber of Commerce.

**REBECCA KARAM** ('11 B.A.) spoke about her research on the contributions of Muslims in Michigan on behalf of the Muslims for American Progress (MAP) at UM-Dearborn in April.

**AAYAT ALI** ('14 B.A.) is a consultant for the re-entry housing advocacy project at Citizen's Alliance on Prisons and Public Spending.

**NICHOLAS TIANO** ('14 M.P.A.) was sworn in at Farmington Hills Police Department in June. Tiano has served in law enforcement since 2002.

**WHITNEY AMANN** ('16 B.A.) joined the 9&10 News team as a reporter in the Traverse City, Mich., bureau in February.

**SAMANTHA STRAGER** ('16 B.A.) opened Center Stage, a barre studio in Royal Oak, Mich.

**DIANE GULYAS** ('16 M.P.A.) received the Summer 2017 Mentor of the Year Award from the UM-Dearborn Humanities/History Internship Program.

### COLLEGE OF BUSINESS

#### '70s

**RON RIGGAN** ('78 B.S.A.) joined Level One Bank as vice president, commercial lender. He brings more than 35 years of experience in business banking.

#### '80s

**HAROLD TELNERS** ('81 B.S.A.) was named chief financial officer of CGE Energy.

**KENNETH CHAPUT** ('89 B.S.A.) has been promoted to managing director of compliance and operations at CIG Capital Advisors.



## Health Promotion

Most people try to avoid mosquitos. **DR. JOHN BOYER** ('80 B.S.) went looking for them.

Boyer shadowed Panamanian health officials as they went door to door performing inspections. They searched flowerpots, old tires and empty swimming pools for the insects, all part of an effort to eliminate the spread of Zika, dengue and other mosquito-borne diseases.

Boyer, who works with the IBM Health Corps, spent nearly a month in Panama, creating a tool to help the Gorgas Memorial Institute and Ministry of Health in Panama collect data more efficiently. Boyer—an advanced analytics consultant for IBM's Global Business Services healthcare team—and his

project team members documented the government's manual process in tracking public health concerns.

The team discovered it took 10 days for information to get from the inspectors to the Ministry of Health. The reason? Most of the work was done on paper. So Boyer and his team created a mobile application that allowed inspectors to upload and send information instantly. In remote jungle areas where there is no wireless, the app caches information until wireless communication is available again. Many homes don't have addresses, so there also is a geo-locator.

Boyer said making data available earlier and the predictive analysis using epidemiological modeling will reduce the impact and severity of outbreaks of mosquito-borne diseases.

"The project was a culmination of knowledge from my education and career, from my biology/healthcare roots to the data analysis skills I picked up along the way," he said. "It was a privilege to learn from my team members and have the opportunity to serve others."

**JOHN BOYER ('80 B.S.)**



## CLASS NOTES

### '90s

**TONY DIVITO** ('90 B.B.A., '99 M.S.) was promoted to principal at Rehmann, a fully integrated financial services firm.

**REBECCA DAVIES** ('91 B.S.A.) has been named a 2017 Honoree for Michigan Women in Law by the *Michigan Lawyers Weekly*.

### '10s

**KRISTIN MCDONOUGH** ('10 B.B.A., '15 M.P.A.) is the electrical and computer engineering alumni and external relations manager at University of Michigan-Ann Arbor.

### COLLEGE OF EDUCATION, HEALTH, AND HUMAN SERVICES

### '70s

**LYNNE LAURINEC** ('78 B.A.) was named one of Royal Oak School District's Teacher of the Year.

### '90s

**JENNIFER MAST** ('97 B.A., '00 M.P.A.) is superintendent of Dearborn Heights School District No. 7. Mast has been with the district for 20 years.

### '00s

**KELLY STETZ** ('03 B.A., '03 Teach. Cert., '08 M.A.) was awarded the Excellence in Teaching award, which honors those who have given outstanding contributions to Catholic education.

**BILL SOLOMONSON** ('04 M.A.) received the Keith A. Pretty 2016 Distinguished Online Faculty Member of the Year award from the Alliance for Excellence in Online Education. Solomonson is associate professor of organizational leadership at Oakland University.

**ADAM BURNS** ('06 Teach. Cert.) was named 2016 Troy School District Teacher of the Year, 2016 Butler-Cooley Excellence in Teaching Award winner from Turnaround Management, a 2016-17 Michigan Lottery Excellence in Education winner, and one of 10 teachers in the country to be a 2017 Sondheim Inspirational Teaching Award winner by the Kennedy Center.

**STEVE BROWN** ('07 M.P.A.) was appointed Wixom, Mich., city manager.

### '10s

**BLAIR (CHAMBLERLIN) STAMPER** ('12 B.S.) was promoted to creative manager at Washtenaw Community College.

### COLLEGE OF ENGINEERING AND COMPUTER SCIENCES

### '80s

**BRIGIT ANTHONY** ('87 B.S.E.M.E., '93 M.S.E.) was recognized by The Manufacturing Institute as one of its 2017 STEP Ahead Award Honorees and by *Profiles in Diversity Journal*, which awarded her a 2017 Women Worth Watching in STEM Award.

**THOMAS GIACOMINI** ('88 B.S.E.M.E.) was elected to MSA Safety Inc. Board of Directors.

### '90s

**JENNIFER SLATER** ('97 B.S.E.M.E.) was awarded one of the 2017 STEP Ahead Awards for Women in Manufacturing.

### '00s

**JEFFREY JONES** ('01 B.S.E.C.O., '01 B.S.E.E.E., '04 M.S.) is executive director for Asia Pacific business strategy at Ford Motor Co.

**STEVE BRENNAN** ('02 B.S.) was appointed vice president of data strategy and analytics for Carhartt.

**JASON TURRI** ('05 B.S.E.M.E.) published *Sent for Life*, a science fiction novel.

### IN MEMORIAM

The University of Michigan-Dearborn community mourned the loss of two longtime faculty members in recent months.

**ANGELA ALLEN**, lecturer IV in chemistry, died Sept. 8. Allen had taught organic chemistry at UM-Dearborn for 22 years, served as faculty adviser for several on-campus organizations and was CASL ombudsperson from 2007 to 2010. Colleagues remember her encouraging students to get involved on campus and in their communities, sharing positive messages on her social media channels and energetically teaching her class even through rounds of debilitating chemotherapy.

**TERRY OSTROM**, lecturer II in mechanical engineering, died Sept. 11. Ostrom served in the Department of Mechanical Engineering for 26 years and was an essential component of the department's materials science and materials processing research areas. Colleagues say he was a "walking encyclopedia of materials science" who shared his knowledge with students and other faculty in a relatable and positive way.



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## The future of engineering is here for the taking in Michigan

Detroit's story as a comeback city has been well documented over the past few years, as a growing number of innovative tech startups and small-business owners transform the Motor City's image into a hotbed for young talent with entrepreneurial grit across all industries.

Detroit's entrepreneurial ecosystem is indeed alive and well—but what makes our area so unique is that we are not only home to the thinkers, but also the makers. It started with Henry Ford's Model T and Michigan has never looked back. Manufacturing is in our DNA. And this unique combination of brains and muscle is what sets us apart from places like Silicon Valley, and what will ultimately help drive Detroit, and the entire state of Michigan, forward during a time of great technological change known as "Industry 4.0."

Industry 4.0—or the fourth industrial revolution of connected, smart factories—has created both immense opportunities and great challenges for manufacturers across the globe, as they rethink, retool and rebuild the way they do business. Think big data, the Internet of Things, the cloud, 3D printing, autonomous robotics, cybersecurity, artificial intelligence and so on.

Michigan has an opportunity to lead the nation in the implementation of Industry 4.0 on our factory floors. Technology meccas like Silicon Valley have historically remained in the world of information technology, staying away from manufacturing in part because it's more expensive to deal with physical things. Industry 4.0 changes all that.

Industry 4.0 is attracting the attention

of Silicon Valley investors whose argument is it doesn't matter where you make the product anymore, it matters where you design it. This is the threat our state is facing.

One of our advantages in Michigan is that we have a rich supply chain of traditional manufacturers all the way from smaller suppliers to Tier 1s and OEMs. Since Industry 4.0 can be characterized as manufacturing at the speed of information, this can be a great environment for new technologies to be vetted. We have seen firsthand how some traditional Michigan manufacturers are innovating internally and deploying Industry 4.0 technologies, learning as they go. But these companies need help navigating this uncharted territory, and that's where Automation Alley comes in.

Automation Alley is connecting industry, academia and government to fuel Michigan's economy and accelerate innovation. From small tech startups to large OEMs, our goal is to help Michigan companies increase revenue, reduce costs and think strategically as they keep pace with rapid technological changes in manufacturing.

We understand that the key to our state's success in Industry 4.0 is knowledge, not only for business owners, but also for a workforce that will need to be upskilled as jobs are replaced by automation. No one knows for certain what our nation's employment landscape will look like in a decade, and while it's easy to feel threatened by technology, we do know from history that innovation creates new types of jobs and that employment gains will far outweigh the losses as this wave of technology washes over us.

We must all be committed to shining a light on the incredible highly skilled, high-paying careers available in this sector—today and in the future.

Industry 4.0 is already beginning to transform America's workforce. As corporations shift toward smart manufacturing, robots will increase efficiency, companies will reduce costs and increase profits and more jobs will be created as a result. Industry 4.0 will most certainly create new kinds of jobs that will require new skill sets. That is why it is imperative that we invest in education to grow the future talent pool.

Together, we must expose the current and future workforce to Industry 4.0 through education so that our state has companies that can win on the global stage today and have a strong talent pipeline of work-ready, educated students for tomorrow.

No matter what industry you serve, the Industry 4.0 revolution will affect your business. And the future of Industry 4.0 belongs to those who are willing to invest time, talent and resources into implementing new technologies today. Don't get left behind. Expand your understanding of where this fascinating industry—and our world—is headed.

*A version of this article previously appeared in Bridge Magazine.*



*Tom Kelly is executive director and CEO of Automation Alley.*



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# Snap

## HANDS-ON EDUCATION

Experiential learning has been a defining part of a UM-Dearborn education since the university's beginnings in 1959. Here, an engineering student works alongside her co-op coordinator in the 1970s. Turn to page 14 to learn how today's internship and co-op programs continue to help students stand out.

Photo by Phil Lavender

