

## Grad student selected as finalist for national fellowship from Sea Grant

By Christine Billau

A University of Toledo graduate student in biology who has been working to restore giant, ancient sturgeon to Lake Erie was recently selected as one of 61 finalists across the country by Sea Grant for the 2018 Knauss Fellowship.

As a finalist, Jessica Sherman Collier, PhD student researcher in UT's Department of Environmental Sciences, will spend a year working in Washington, D.C., on water resource policy.

"I am very excited and quite honored to be selected for this fellowship," said Sherman Collier, who was recommended to Sea Grant by her PhD adviser Dr. Jonathan Bossenbroek. "The

Knauss Fellowship is an amazing opportunity, and I am so happy to represent The University of Toledo and the Great Lakes region while I am there."

Sherman Collier will spend a week in November interviewing with up to 20 different federal agency and legislative offices, such as the National Oceanic and Atmospheric Administration, Department of Interior, National Science Foundation, U.S. Navy, and the Senate Committee on Commerce, Science and Transportation. After being matched with her fellowship placement, her work will begin in February.

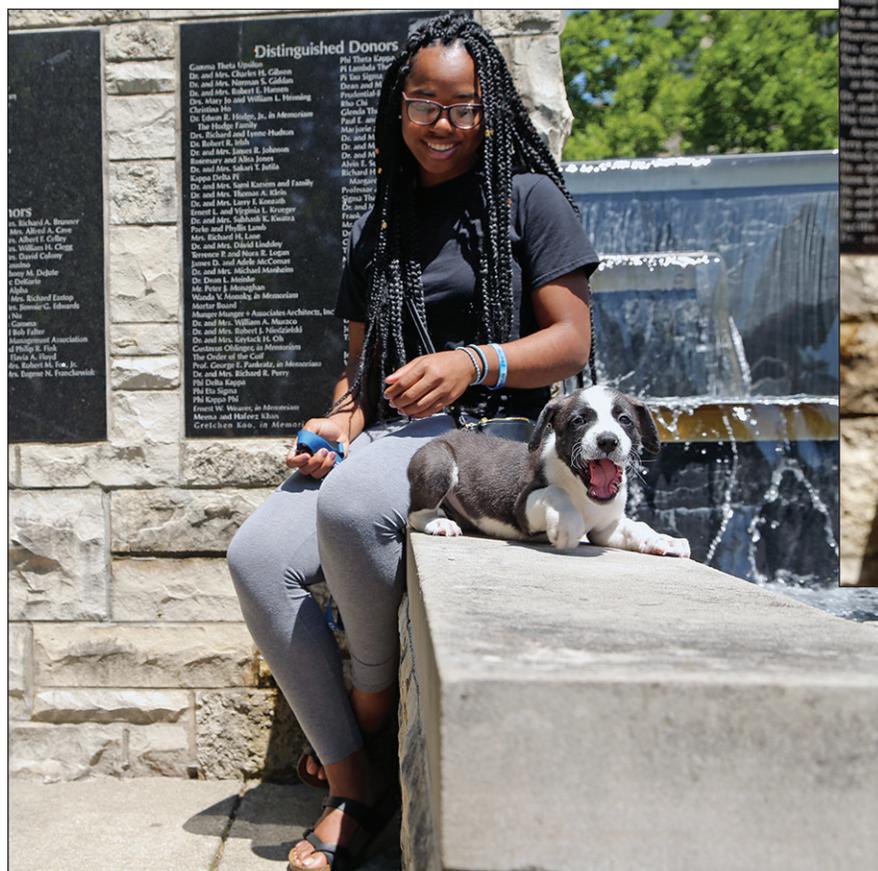
"This is a great launch to Jessica's career, and I hope

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**BIG FISH:** Jessica Sherman Collier, UT doctoral candidate in biology, held a 32-inch, 40-pound lake sturgeon while surveying on the Detroit River with a crew from the U.S. Fish and Wildlife Service.

## Puppy love



Photos by Rachel Nearhoof

Chyne, a 6-week-old pit bull, was strutting her stuff last month on the Fountain of Excellence between University, Gillham and Stranahan halls. Sitting beside her was Deja Martin, a senior majoring in education, who is friends with the puppy's owner, Jaylyn Gordon, a junior majoring in civil engineering.

## Watch solar eclipse at UT Aug. 21

By Christine Billau

On Monday, Aug. 21, a total solar eclipse will be visible from parts of the United States mainland for the first time in 38 years.

The University of Toledo's Ritter Planetarium will host a free viewing event for the public from 12:30 to 4 p.m. on the campus lawn between Ritter and McMaster Hall.

"We will be able to see an approximately 80 percent eclipse from Toledo, weather permitting," said Alex Mak, UT associate planetarium director. "This is a rare opportunity, and we want to celebrate with the community."

UT astronomers will have several safely filtered telescopes set up outside looking at the eclipse. A limited supply of solar eclipse glasses will be for sale for \$2 each.

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## Thank you



Photos by Rachel Nearhoof

Dan Barbee, chief executive officer of UT Medical Center; spoke during the picnic, along with President Sharon L. Gaber and Dr. Christopher Cooper, dean of the College of Medicine and Life Sciences, and executive vice president for clinical affairs.

Faculty, staff, students and volunteers ate on the patio during UT Medical Center's thank-you picnic. Celebrations for all shifts were held Aug. 1 and 2 to recognize Health Science Campus members for their exceptional work.

## Accessibility improvements slated for several buildings

By Vicki L. Kroll

Work is scheduled on 12 buildings to address accessibility concerns related to the Americans with Disabilities Act (ADA).

The project will begin next week in University Hall, Bowman-Oddy Laboratories, Memorial Field House, North Engineering Building, Nitschke Hall and Wolfe Hall.

"In University Hall, accessible drinking fountains will be installed, upgrades to toilet accessories will be made, and automatic door operators will be installed at the main public restrooms on the fourth floor," Dan Klett, director of campus planning and design in Facilities and Construction, said.

These improvements to be made are based on a recently completed accessibility survey by Derek Mortland, ADA and community outreach coordinator at the Center for Disability Empowerment in Gahanna, Ohio. That survey was commissioned jointly by UT's Internal

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## Ceremonial tradition



Photos by Rachel Nearhoof

A total of 175 first-year medical students recited the pledge of ethics during the white coat ceremony Aug. 3 in Nitschke Hall Auditorium. More than 75 percent of the new students are Ohio residents, and about 20 percent are from northwest Ohio.

First-year medical student Christine Lu smiled for a selfie with her family after the ceremony. Lu is from Cincinnati.



LOOK FOR THE NEXT ISSUE OF UT NEWS AUG. 21

## Register for parking

All faculty, staff and UT Foundation employees are reminded to register now for parking for the 2017-18 academic year. The University's new parking registration webpage went live Aug. 5.

To register, visit the myUT portal or [myparking.utoledo.edu](http://myparking.utoledo.edu) and follow the prompts. Because the parking registration webpage has been redesigned and looks different than in previous semesters, step-by-step instructions also are available online, if needed.

Among modifications being made to parking in 2017-18, all UT drivers should print a permit confirmation and display it on their dashboard whenever parking on UT property. This permit should be used as a reference to ensure drivers are parked in an appropriate lot based on their permit type (for example, "A," "U," etc.).

Students' permit reservations opened July 10. Beginning Wednesday, Aug. 23, students should log on to [myparking.utoledo.edu](http://myparking.utoledo.edu) to check their parking permit type and to print their permit confirmation.

Drivers may register one primary vehicle, although they may store multiple vehicles in their online profile. "This makes it easy to switch between vehicles, if needed, on any given day," said Bonnie Murphy, associate vice president for auxiliaries. "Only the primary registered vehicle may be parked on campus at any given time."

"There is a new registration webpage and it's mobile-friendly, so it will provide all users a smooth interface with their smart phone, plus any other digital devices they may use," said Sherri Kaspar, manager for public safety services.

Additionally, a new UT mobile parking app currently is under development and will be available this fall. Watch for more details in NewsBreaks and UT News.

More information about UT's new parking system is available in the frequently asked questions section on [utoledo.edu/parkingservices](http://utoledo.edu/parkingservices).

Send questions to [parking@utoledo.edu](mailto:parking@utoledo.edu).

## Assistant provost named interim dean of students

By Meghan Cunningham

In his new role as interim associate vice president and dean of students, Dr. Sammy Spann will encourage students to get engaged on campus.



Spann

Spann, who has served The University of Toledo for 15 years most recently as assistant provost for career services, experiential learning and international programs

involved with today. Throughout his tenure at UT, he also has served as executive director of student engagement and assistant provost for international studies and programs.

"I look forward to working closely with students and my colleagues across the University to enhance the student experience here at UT," Spann said. "I am passionate about getting students involved on campus and connected to opportunities to reinforce their education through real-world experiences. This is an exciting opportunity to help students be successful through those efforts."

Sara Clark, director of global engagement and education abroad, will serve as the interim director for the Center for International Studies and Programs.

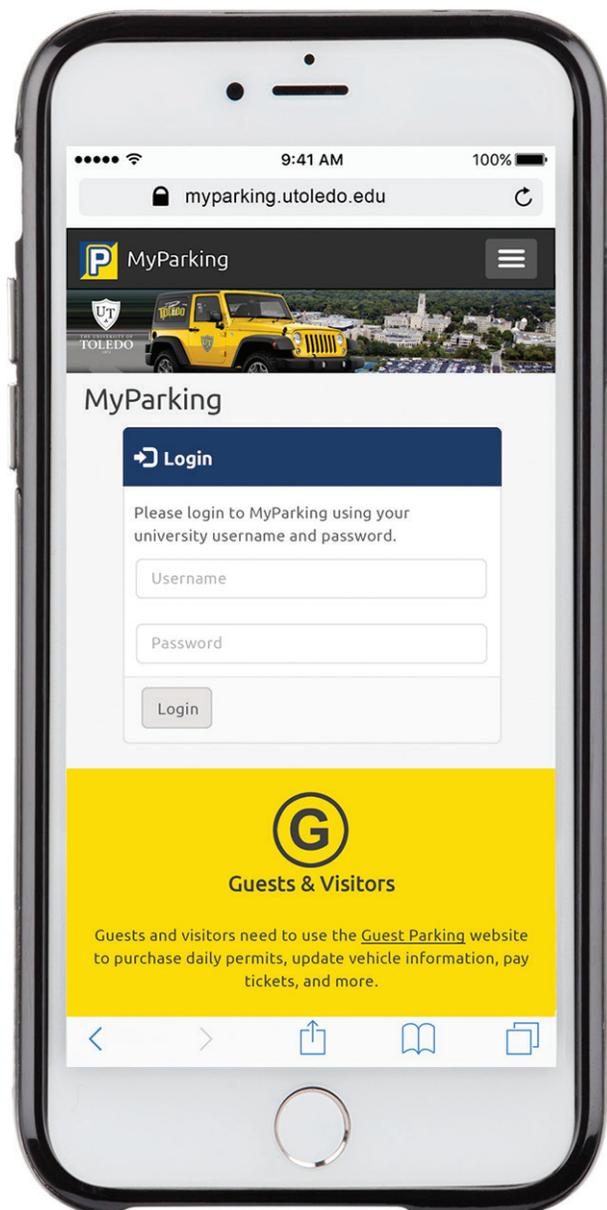
Spann is a UT alumnus receiving his PhD in special education from the University. He also has a master's degree in special education and behavior disorders from the University of Northern Iowa and a bachelor's degree in family and consumer sciences from Fort Valley State University in Georgia.

Prior to joining UT, Spann was a recruiter and retention specialist for Fort Valley State and a supervisor of education practicum experiences at Northern Iowa.

overseeing the Center for International Studies and Programs, was appointed to the role effective July 15.

"We are fortunate to have someone with Sammy's commitment to students and passion for higher education on our campus. He will be an enthusiastic champion for student success as dean of students," said Dr. Phillip "Flapp" Cockrell, interim vice president of student affairs.

Spann, who has 18 years experience in higher education, joined UT in 2002 as director of Camp Adventure, a service-learning program he continues to be



## Portion of Bancroft Street scheduled to close Aug. 8-10

A section of Bancroft Street is slated to close this week so crews can install a new sewer line.

The city of Toledo plans to close Bancroft Street between University Hills Boulevard/North Towerview Boulevard and North Westwood Avenue from Tuesday, Aug. 8, through Thursday, Aug. 10.

A detour via Secor Road to Dorr Street to Parkside Boulevard will be established in both directions.

The intersection of University Hills Boulevard/North Towerview Boulevard and Bancroft Street will remain open during those three days.

After this portion of the work is complete, lane restrictions will begin on Bancroft Street and continue to move

westbound to Meadowwood Drive until the sewer line project is finished. Traffic will be maintained in both directions during this time, which is estimated to be about 30 days, weather permitting.

"We will keep the campus community informed as we receive updates from the city of Toledo on this project," Doug Collins, director of grounds and transportation, said.

To avoid congestion on Bancroft Street during peak times, visitors to Main Campus are encouraged to use the west entrance off Secor Road or the south entrance off Dorr Street.

# UT psychologist challenges accuracy of method to interview child witnesses

By Meghan Cunningham

The reliability of child witness testimony is a prime factor in cases of abuse, but how they are questioned can influence a child's answers. When faced with choices, a child will often pick one, even if the correct answer is not one of the options given.



London Newton

New research by a University of Toledo psychologist supports asking open-ended questions and challenges an increasingly popular solution for forensic interviewers to add a

“something else” alternative choice when questioning young children.

“What we found in our research is that even when children may correctly choose the something else option when the other choices are not accurate, the follow-up answer also is inaccurate,” said Dr. Kamala London Newton, UT associate professor of psychology.

For example, a child is asked a question such as whether the interviewer said that her favorite fruit was an apple, a banana or something else. The interviewer never said anything about her favorite fruit, so the child does not know the correct answer. So the child responds with something else, but when prompted with “What is her favorite fruit?” the child replied, “Carrots.”

London Newton's research titled “Does It Help, Hurt or Something Else? The Effect of a Something Else Response Alternative on Children's Performance on Forced-Choice Questions,” is published in the August issue of the American Psychological Association journal *Psychology, Public Policy and the Law*. She co-authored the article with graduate students Ashley Hall and Nicole Lytle, who have since received their PhDs in developmental psychology from UT.

London Newton's Developmental Psychology Lab studies the best practices in interviewing child witnesses, and she has provided expert testimony on the subject, with her work cited twice by the United States Supreme Court.

“Interviewing young children, particularly those preschool-aged, can be a challenge because of their limited

communication skills and the fact that they do not resist answering false and unanswerable questions,” London Newton said.

“While providing children choices increases the probability that the child will answer the questions, those answers are too often inaccurate,” she said. “That is especially true if children are asked a question but none of the answer choices provided are accurate because children generally do not reply that they do not know.”

That presents a challenge because child abuse professionals argue that answers to open-ended prompts are too sparse and so forced-choice questions are needed, but it is not possible for those professionals to always be sure that one of the choices they are giving the child is true, London Newton said.

For her latest study, London Newton and her research team interviewed 94 children ages 3 to 5 years old. The children had participated in a 20-minute event in which a research assistant touched children on different public locations of their body, such as the elbow, and asked them to show on a doll or drawing where they were touched. Then after a one-week delay, the children were interviewed about that event with a series of questions in which half the participants were asked standard questions with two choices and the others were asked questions with those two choices and also given the something else option.

The researchers found that the addition of the something else option did not improve the accuracy of responses. This was the case for all three types of questions asked — true questions in which the correct answer was present, false questions in which no correct answer was provided, and unanswerable questions that require speculation, for example, is red heavier than yellow?

“Our research supports additional work in this field that shows that the most developmentally appropriate way to pose questions to young children is to avoid forced-choice options as much as possible,” London Newton said. “One of the biggest dangers of including a something else alternative is that it may incorrectly give the interviewers more confidence that the response is accurate. Our findings support that asking open-ended questions is the best approach to interviewing young children.”

## Grad student

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she finds satisfaction doing work as a public servant for the betterment of our environment,” said Dr. Tim Fisher, geology professor, chair of the UT Department of Environmental Sciences, and interim director of the Lake Erie Center.

“We are excited about the talent and perspectives the 2018 Knauss Fellowship finalists will bring to their executive and legislative appointments next year,” Jonathan Pennock, director of the National Sea Grant College Program, said. “The Knauss Fellowship is a special program for Sea Grant, and we are proud of the professional development and opportunities Sea Grant has provided our alumni, the current class and now these finalists.”

Knauss finalists are chosen through a competitive process that includes several rounds of review.

Since 1979, Sea Grant has provided more than 1,200 early-career professionals with firsthand experiences transferring science to policy and management through one-year appointments with federal government offices in Washington, D.C.

Sherman Collier, who also is president of the North American Sturgeon and Paddlefish Society Student Subunit, has been involved in the project to restore lake sturgeon to Lake Erie. Most recently, she helped the Toledo Zoo secure \$90,000 in federal grant money to build a sturgeon rearing facility along the Maumee River, which flows into Lake Erie. Sherman Collier assisted the project by verifying that spawning and nursery habitat still exist in the Maumee River to sustain a population of the fish that can live to be 150 years old and grow up to 300 pounds and eight feet long.

“I have enjoyed working with partners at the zoo, as well as state and federal agencies to give these large and ancient fish a chance to thrive in Lake Erie once again,” Sherman Collier said. “This is an instance when scientists and natural resource managers have the opportunity to improve the state of an ecosystem by restoring a species that belongs there and to learn a good lesson about our actions in the past.”

## Complete compliance training by deadline

As a reminder, all 12-month faculty and staff should plan to complete the following compliance training courses online by Thursday, Aug. 31:

- Intersections: Supervisor Anti-Harassment and Title IX (all faculty/staff);
- Ohio Ethics Commission: Ethics — It's Everybody's Business (all faculty/staff); and
- HIPAA Basics (all Health Science Campus faculty/staff, plus those with direct or indirect ties to patient care, as assigned).

Nine-month, 10-month and part-time faculty and staff, as well as student employees, will have

access to and should complete the training between Friday, Sept. 1, and Tuesday, Oct. 31. Reminder emails will be sent.

To access your assigned courses, you may either use your email invitation and click on the Begin Training button, or you may log in to myUT and access the courses under the Training and Career Development section; review the instructions posted there before beginning course work.

Please reserve at least 60 to 90 minutes to complete each class.

If you have questions, email [trainingdevelopment@utoledo.edu](mailto:trainingdevelopment@utoledo.edu).

# Eclipse

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“We also will have a couple dozen ‘Personal Solar Observatory Boxes’ people can use at no cost,” Mak said.

In the event of clouds, a web stream of the eclipse from other locations across the country will be playing in McMaster Hall Room 1005.

Ritter Planetarium’s next three Friday night programs will focus on the eclipse. Programs are at 8:30 p.m. Aug. 11 and 18. Admission is \$7 for adults and \$5 for members of the UT community. Children younger than 12 and senior citizens are free.

For more information, go to [ritter.utoledo.edu](http://ritter.utoledo.edu).

Mak also is giving free, public talks about the upcoming solar eclipse at branches of the Toledo-Lucas County Public Library as part of a grant UT received from the American Astronomical Association. The workshops are primarily intended for children. Guests receive a pair of solar eclipse glasses, informational handouts and planetarium guest passes. The library events are:

- Tuesday, Aug. 8, at 2 p.m. at West Toledo, 1320 Sylvania Ave.;
- Wednesday, Aug. 16, at 3 p.m. at Toledo Heights, 423 Shasta Drive; and
- Friday, Aug. 18, at 4 p.m. at Birmingham, 203 Paine Ave.

“We want to get kids excited to watch the eclipse, make sure they do so in a safe manner, and foster an interest in astronomy that can be maintained well after the eclipse,” Mak said.

**Where Will You Be on Monday, August 21, 2017?**

A partial eclipse will be seen from all of North America. See reverse for safe viewing options.

Total eclipse will only be visible in the center line (left)—plunging viewers into total darkness.

**NASA Night Sky Network**  
Find your local astronomy club: [nightskynetwork.org](http://nightskynetwork.org)

EXPERIENCE THE 2017 ECLIPSE ACROSS AMERICA THROUGH THE EYES OF NASA <http://eclipse2017.nasa.gov>

**EXPERIENCE THE 2017 ECLIPSE ACROSS AMERICA**

OR - ID - WY - NE - KS - MO - IL - KY - TN - GA - NC - SC

**AUGUST 21, 2017**

WHEN THE SUN AND MOON ALIGN WITH YOU!

## Shoring it up



UT student April Brown presented her research on “Long-Term vs. Short-Term Beach Modeling” during a poster presentation July 27 at the Lake Erie Center. She was one of 11 undergraduate students from universities across the country who have been working on projects during UT’s National Science Foundation Research Experiences for Undergraduates summer program. Students were partnered with scientists, engineers, graduate students and agency professionals to conduct cutting-edge research on important land-lake environmental challenges, including harmful algal blooms, climate change, invasive species and other water quality concerns.

Photo by Cameron Norton

## Faculty member presented with Blackboard Catalyst Award

By Madison Vasko

“To me, being engaged is essential to learning. If what you are learning isn’t fun and interesting to you, you won’t want to learn and you won’t retain what you learn,” said Dr. Claire Stuve, curriculum developer and technology researcher in University College.



Stuve

Inc., this award honors those institutions whose methods have ensured their pedagogy, content, technology and

This philosophy on learning contributed to Stuve being honored with a 2017 Blackboard Catalyst Award in the category of inclusive education. According to Blackboard

educational services are fully inclusive and supportive of all learners with disabilities.

Founded in 2005, the annual Catalyst Awards recognize and honor innovation and excellence in the Blackboard global community of practice, where millions of educators and learners work every day to redefine what is possible when leveraging technology. Winners were selected by a team of Blackboard experts.

“I’m extremely honored to be recognized for my work, but I’m just so thrilled that I created a course [Math 1330: Trigonometry] that truly helped students succeed. Introductory math courses are known for having high failure rates, but this award shows that an online math course can be successful,” Stuve said. “It is essential to be fully inclusive and supportive of all learners, not just those with documented disabilities. To help students succeed, I made sure that all my videos were captioned, content was keyboard accessible, documents were compatible with screen readers, and that there were limited colors and easy-to-read font types.”

Stuve explained she was motivated by her own experiences as an undergraduate in her work to make her courses engaging and enjoyable for students: “I struggled a lot and did not like school at all, which was a completely different experience than the previous 12 years of school I had. Then at the end of my program, I took an educational technology course that was deeply engaging and used technology to make the class fun. It’s the class in which I learned the most and actually gained knowledge that I kept with me after I walked out the classroom door. The four years I spent as an undergraduate were so painful that I became fueled with passion to improve university courses for other students so that they do not have to struggle the way that I did.”

Originally a high school teacher, Stuve holds a bachelor’s degree in physics, a master’s degree in instructional technology, and a doctoral degree from UT in curriculum and instruction.

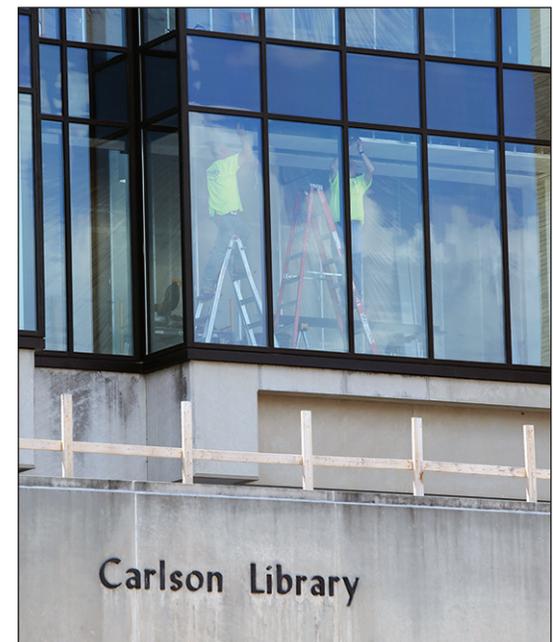
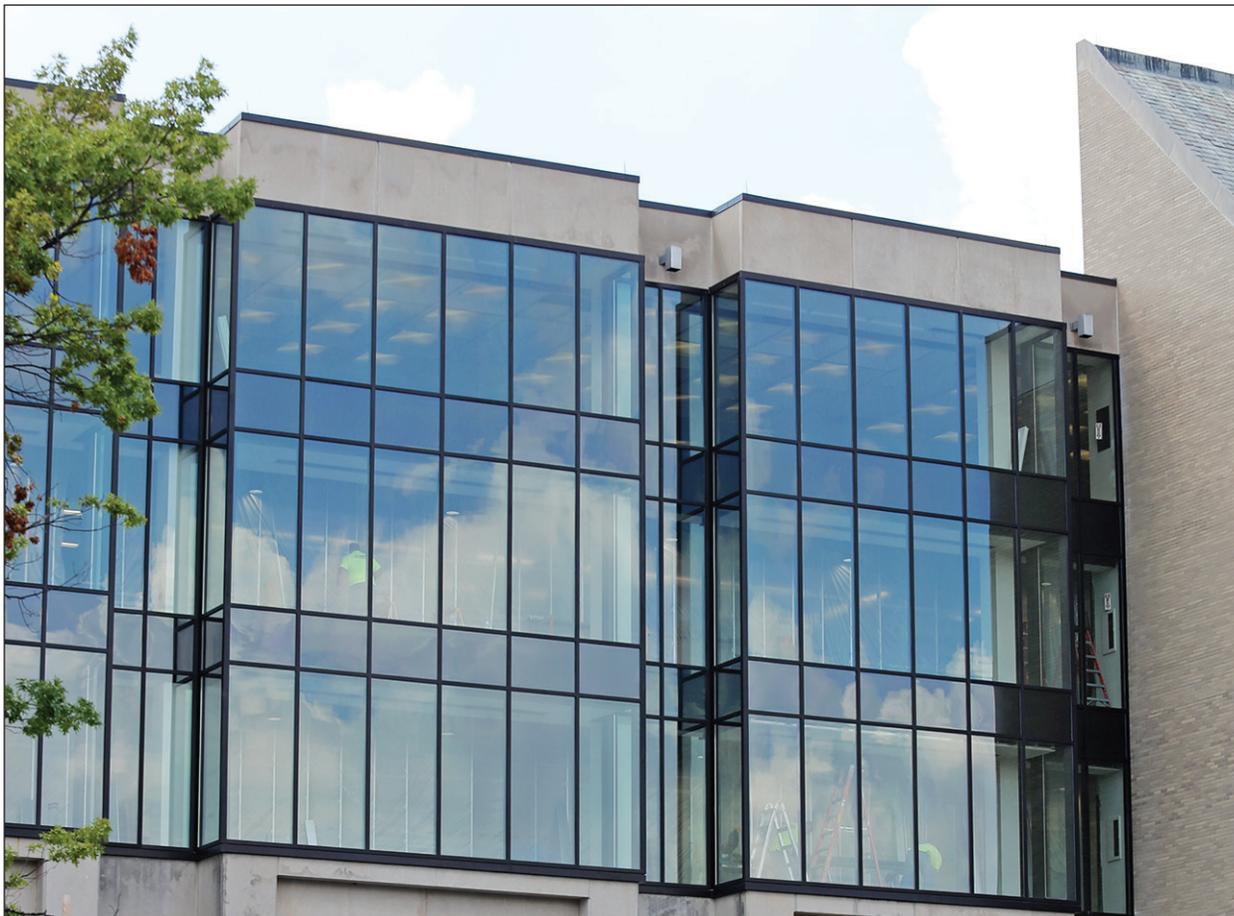
The improvements to Stuve’s class didn’t come about without collaboration

from the students who participate in the course: “Although I put a lot of work into making my course inclusive of all students, I couldn’t have done that without my students’ feedback. I met with my students synchronously once a week in a web conference session, and I always talked to them about their learning. Because students shared with me, I was able to learn how I could best design the course to meet their needs. I have read a lot of research about online math education, but sometimes the best answers to my questions came from simply asking my students what they wanted.”

In addition to using technology to create an inclusive classroom, Stuve employs more traditional methods to keep the atmosphere fun: “All the math jokes I told throughout the semester may not have been so bad!”

For a full list of 2017 Blackboard Catalyst Award recipients, visit [press.blackboard.com/Blackboard-Catalyst-Awards-2017](http://press.blackboard.com/Blackboard-Catalyst-Awards-2017).

## All that glass



Photos by Daniel Miller

The glass curtain on the east side of Carlson Library has been installed, and interior work on the renovation continues. The project is on schedule and all but the south entrance is expected to be complete by the start of classes Monday, Aug. 28, according to Chris Levicki, project manager/manager of structural maintenance with Facilities and Construction. The south entrance is scheduled to be done by mid-September, he added. The \$3 million project is made possible by state biennium capital funds.

## Disability studies assistant professor awarded fellowship for research on incarceration

By Madison Vasko

Dr. Liat Ben-Moshe, assistant professor of disability studies, wants to bridge the gap between studying disability and incarceration.

“It was odd to me that there weren’t more connections between disability studies and prison studies when I first began doing this work. Now, after doing this for more than a decade, there are more people, organizations and scholarship on this topic,” she said. “First, there is the high proportion of disabled — psychiatric, cognitive, learning or other disabilities — in prison, a phenomenon not often discussed. Then there are so many sites of confinement for people with disabilities, even outside of prison settings — nursing homes, psych hospitals, institutions. We need to understand all these as sites of incarceration.”

Ben-Moshe recently was recognized for her outstanding work with one of the American Association of University Women’s American Fellowships for the 2017-18 academic year. These fellowships support women scholars who are completing dissertations, planning research leave, or preparing research for publication.

Her forthcoming book, “Politics of (En) Closure,” focuses on movements to abolish prisons and deinstitutionalization of mental and intellectual health institutions.

“I am incredibly honored to be receiving such a prestigious and competitive fellowship, and I see it as a recognition for my work on social movements that resist incarceration. But I also see it as a

recognition of the field of disability studies and specifically of UT’s role as a leader in the field of disability studies, as we have currently the only on campus bachelor of arts degree in disability studies in the U.S.,” Ben-Moshe said.

Studies have shown that more than half of inmates in local and state prisons received clinical diagnosis or treatment by a mental health professional. Ben-Moshe believes the solution to this troubling statistic lies in having a better understanding of what is called mental illness.

“When people who do prison advocacy or critical prison studies work discuss disability, it is not as an identity and a culture, but as a deficit. Those within disability advocacy and work really need to learn more about prison and prison abolition,” she explained. “The intersectional nature of oppression and its resistance here are vital.

“For example, in my new book, I discuss what prison reformers and abolitionists can learn from deinstitutionalization, which was another mass movement to close carceral settings such as psychiatric hospitals, institutions for people with intellectual disabilities. People didn’t think it will happen; it was called utopia, unrealistic. But it did happen, and we can learn from it about how to rely less on settings that segregate people, like institutions and prisons, and more about how to deal with harm and difference in the community.”

## Visiting scholar

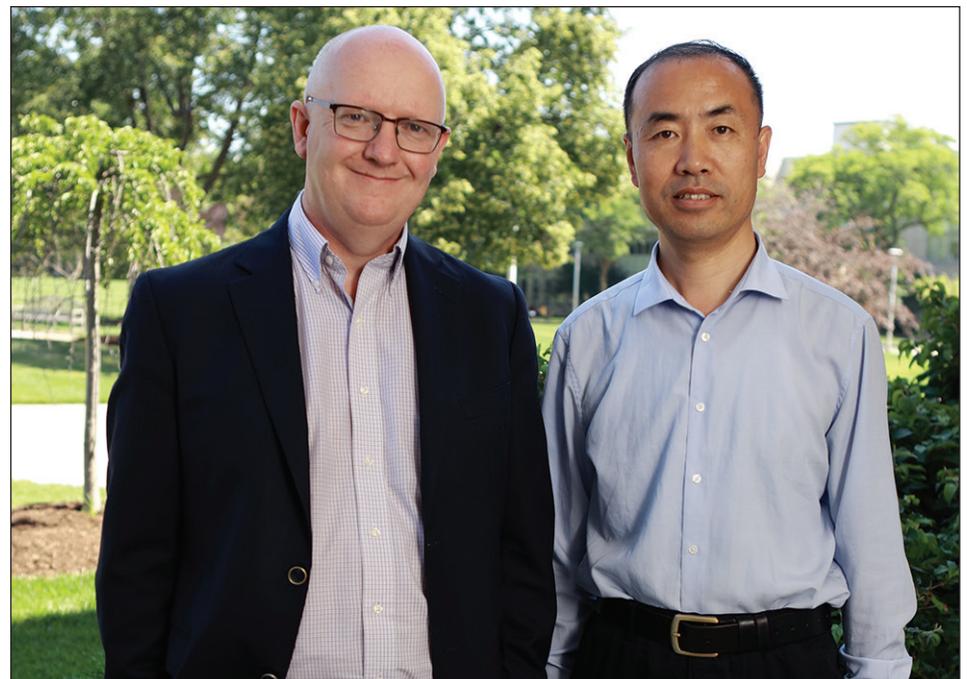


Photo by Daniel Miller

Dr. Neil Reid, professor of geography and planning, left, last month hosted a special guest, Dr. Yanji Ma, a professor at the Northeast Institute of Geography and Agroecology and the Chinese Academy of Sciences in Changchun. Ma is an economic geographer with an interest in the fiscal revitalization of old industrial regions. During his two weeks here, he learned about the economic changes that have taken place in the Toledo economy and revitalization efforts that are occurring. “With their traditional focus on heavy industry, there are a lot of similarities between Toledo and Changchun. Changchun’s major industries include automobiles, passenger trains and food processing. Indeed, Changchun produces more automobiles than any other city in China and is also home to a major automotive research and development center; this has earned it the nickname China’s Detroit,” Reid, director of the Jack Ford Urban Affairs Center, said. “Dr. Ma was very impressed with many aspects of the northwest Ohio region, including its location on Lake Erie, its excellent park system, and the efforts that are occurring to revitalize downtown. Toledo was Ma’s only stop while in the United States.” While he was here, Reid and Ma also discussed developing a faculty and student exchange between UT and the Northeast Institute of Geography and Agroecology.

## The results are in



Photo by Daniel Miller

Maryam Jawaid talked about her project titled “The Role of Asterless in Fly Fertility” during the End-of-Summer Research Symposium Aug. 3 in the Ward M. Canaday Center for Special Collections in Carlson Library. She was one of more than 50 undergraduate students who presented their work during the event. The students participated in the Undergraduate Summer Research and Creative Activity Program, the First-Year Summer Research Program, the National Science Foundation Research Experiences for Undergraduates Program, and the Toledo Talent Keeps Toledo Great Internship Program.



Ben-Moshe

Photo by Daniel Miller

# Sunny delight: Art on the Mall



More than 13,000 visited campus July 30 for Art on the Mall. It was the the 25th anniversary for the juried art fair hosted by the UT Alumni Association.



Marci Helmier, left, and Pat Yancy marveled at the colorful paintings.



Dr. James Harrell, professor emeritus of geology, checked out some jewelry.



Photos by Daniel Miller

Libbey McKnight and Michael Swick, both of Toledo, looked at artful wine bottles.

# Rockets picked to win MAC West Division

By Paul Helgren

The University of Toledo football team was picked to finish in first place in the Mid-American Conference's West Division in voting by members of the league's media contingent.

The annual preseason poll was released July 26 at the conference's 2017 Football Media Day at the Pro Football Hall of Fame in Canton, Ohio.

The Rockets received 22 first-place votes and a total of 142 points in the annual poll, 35 points ahead of second-place Western Michigan. Toledo also picked up 21 out of 24 votes to win the MAC Championship Game. Ohio (31 points) was picked to repeat as MAC East Division champion, followed by Miami (129).

"It's good to know that people think you're going to be a good team, but championships aren't won in the off-season," said UT Head Coach Jason Candle. "We've got a lot of work to do. We're certainly not a finished product. Our team is ready to start camp and prepare for what we hope will be a great season."

Toledo was 9-4 in Candle's debut as head coach in 2016, earning a berth into the Raycom Media Camellia Bowl.

UT returns one of the nation's most explosive offenses. Led by senior quarterback Logan Woodside, Toledo averaged 38.0 points per game and led the Mid-American Conference in total offense with a school-record 517.8 yards per game in 2016. Woodside paced the nation with 45 touchdown passes and was named a Heisman contender by the Heisman Trophy Trust. Two of his favorite targets are back — Cody Thompson (64 receptions, 11 TDs, 19.8 yards per catch) and Jon'Vea Johnson (40 receptions, 10 TDs, 19.3 yards per catch) — as is 2015 second-team All-MAC running back Terry Swanson.

On defense, the Rockets return seven starters, including All-MAC linebacker Ja'Wuan Woodley.

The Rockets open their season at home vs. Elon Thursday, Aug. 31, at 7 p.m.

For ticket information, go to [utrockets.com](http://utrockets.com) or call 419.530.GOLD (4653).

## 2017 MAC Football Media Poll Team (First-Place Votes) — Points

### MAC West Division

1. Toledo (22) — 142
2. Western Michigan (1) — 107
3. Northern Illinois (1) — 89
4. Eastern Michigan — 74
5. Central Michigan — 62
6. Ball State — 30

### MAC East Division

1. Ohio (11) — 131
2. Miami (12) — 129
3. Bowling Green (1) — 88
4. Akron — 79
5. Buffalo — 41
6. Kent State — 36

2017 MAC Championship Game Winner: **Toledo (21)**; Western Michigan (1); Bowling Green (1); Miami (1).



Photo by Daniel Miller

GETTING READY: Cornerbacks Coach Hank Poteat worked with players on the second day of football training camp.

# UT researchers explore the beauty of crystals published in Science, Science Advances

By Madison Vasko

Dr. Kristin Kirschbaum definitely found her passion when it comes to crystallography. The director of the Instrumentation Center in Bowman-Oddy Laboratories and graduate student Kelly Lambright recently solved the crystal structures of huge gold nanoparticles, which were published in *Science* and *Science Advances*.

“It is an achievement and an honor for The University of Toledo in general and crystallography at UT in particular,” Kirschbaum said of the work that appeared in the top scientific journals. “Crystallography at UT has had a great reputation over many decades, under the leadership of Dr. A. Alan Pinkerton, and we are proud to have worked over the years with high school, undergraduate and graduate students. I am particularly delighted that a large part of this work was done by one of our graduate students from the chemistry department, Kelly J. Lambright.

“The support and funding of our instrumentation by the University allowed this program to develop and become a leader in the field of crystallography of nanoparticles.”

The recent article in *Science* focuses on crystallography solving the atomic structure of a Au<sub>246</sub> nanoparticle revealing the three-dimensional arrangement of all 246 gold atoms and the protective organic shell. This kind of information can only be determined by crystallography.

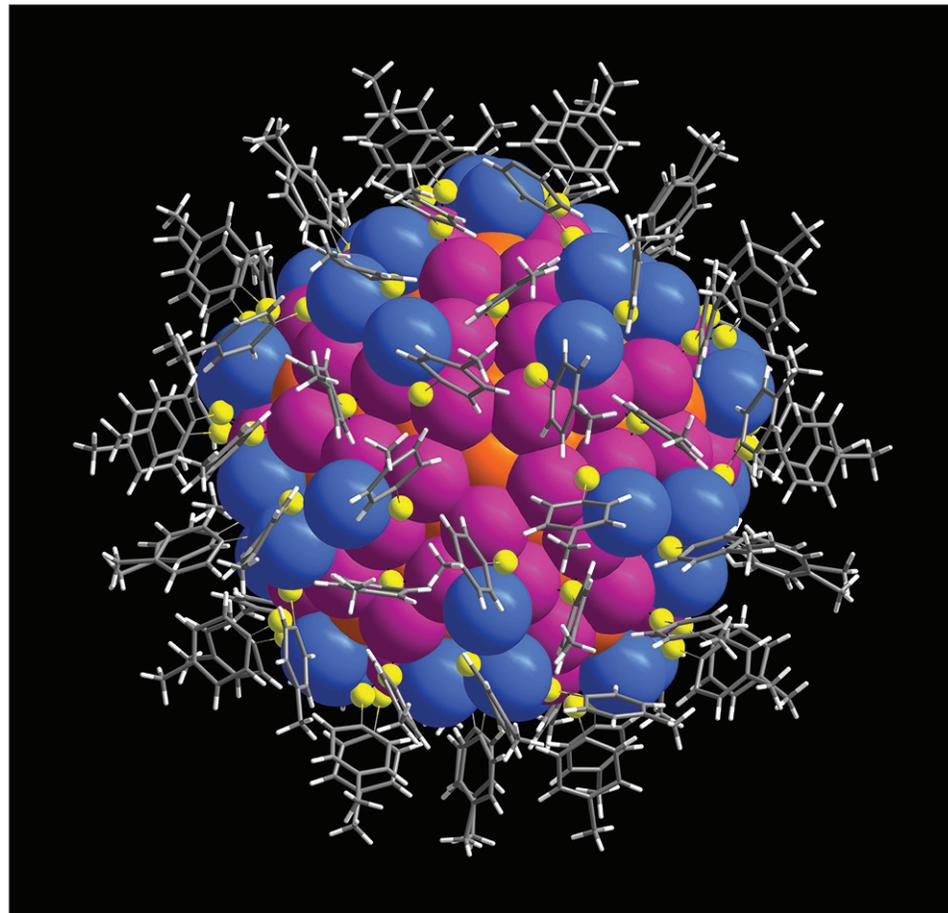
“First, you start with beautiful crystals,” Kirschbaum said cheerfully, isolating a single crystal sample, and placing it inside a diffractometer. The Instrumentation Center is home to five of these instruments, and it’s common for the lab to receive crystals from around the world to analyze; requests have come from places including Iran and India, as well as national collaborators from Duke, the University of Houston, Sloan-Kettering Cancer Center and Carnegie Mellon. The Carnegie Mellon collaborator Dr. Rongchao Jin, an internationally recognized expert in nanoparticles, provided the crystal of Au<sub>246</sub> nanoparticles.

The crystal is then exposed to an x-ray beam, which it diffracts in a way that is unique to that particular compound. These reflections are collected and analyzed to find the 3D structure of the compound.

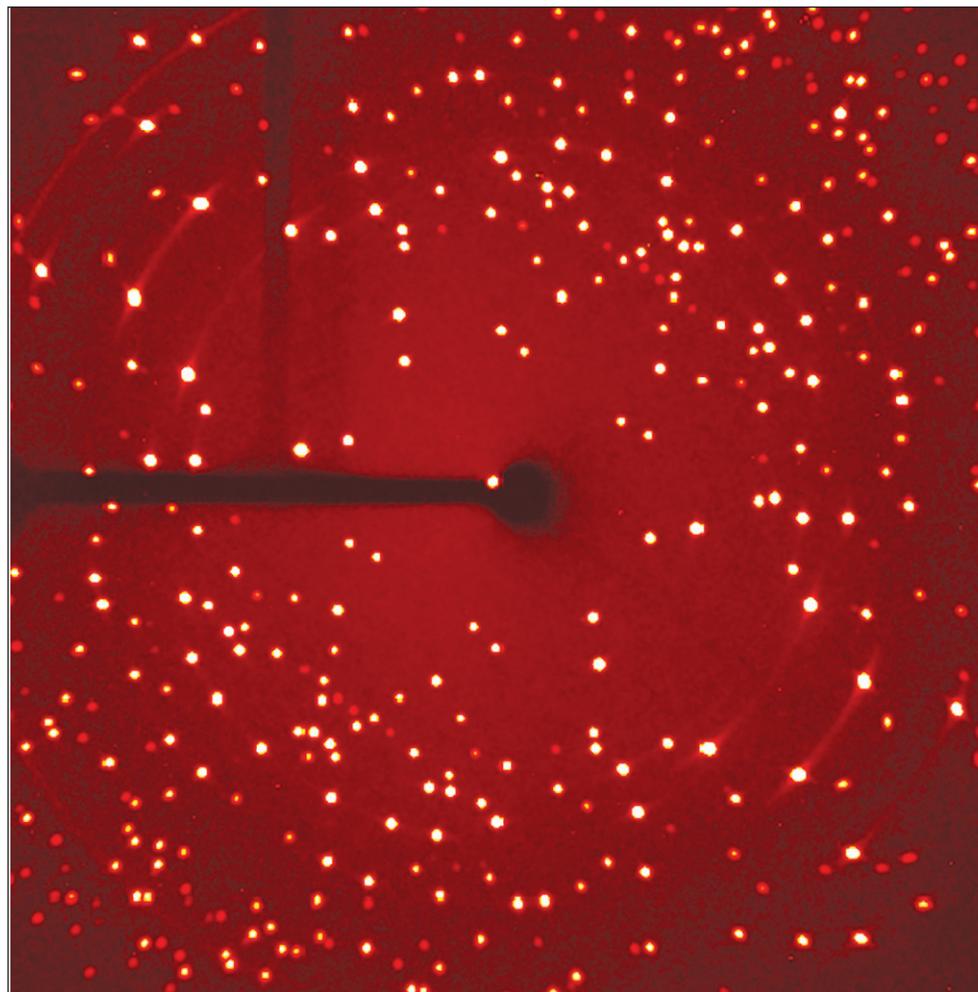
“The importance of these structural results lies in the fact that all of the medical, electronic and optical properties differ

depending on the size and the structure of the nanoparticles. Certain nanoparticles are known to enhance cancer radiotherapy, others assist in early tumor detection or are used in solar cells and nano-electronics,” Kirschbaum explained. “The secret of why some nanoparticles have certain properties and others do not is in the 3D arrangement of the atoms. The publication in *Science* is based on the crystal structure analysis of a novel nanoparticle. It is the largest gold nanoparticle so far whose structure has been determined by crystallography. The foremost largest crystallographically analyzed gold nanoparticle consisted of 133 gold atoms and was also just recently structurally characterized at UT and published in 2015 in *Science Advances*.”

Kirschbaum went on to say how the research done at UT can have tremendous applications: “Biomedical applications include sensing of important biomolecules — for example, glucose — radio-sensitizing for cancer radiotherapy and early tumor diagnosis. Knowing the arrangement of the atoms allows understanding and predicting the properties of these nanoparticles. Scientists can then design novel nanoparticles with a certain structure and desired properties.”



**GOLDEN ARRANGEMENT:** This is the UT team’s crystallographic analysis of the nanoparticle consisting of 246 gold atoms that was published in *Science*. The orange, blue and pink spheres are the gold atoms, yellow is sulfur, and grey and white are the carbon and hydrogen protective organic layer.



**THE SHINING:** This image shows the data collected when an x-ray beam shines on a crystal in a diffractometer.

On the river



Students and staff of the Center for International Studies and Programs and the Confucius Institute participated in the 16th annual Dragon Boat Summer Learning Festival hosted by Partners in Education last month at International Park on the Maumee River. "We came in third place in the education industry — out of five teams," Xinren Yu, international program coordinator for the Center for International Studies and Programs, said and laughed. "But everyone had fun at this great event that stresses the importance of learning about culture and teamwork!"



Friday night movie



See you at the Glass Bowl Friday, Aug. 18, to watch a free screening of "Moana." The movie will begin at 8 p.m. with gates opening at 6:30 p.m. for the opportunity to meet members of the football and volleyball teams. Throughout the evening, fans of all ages can participate in various activities, including color stations, inflatable bounce houses, obstacle courses, corn hole and more. Attendees may bring their own food and drink into the stadium. The concession stands also will be open. For more information, call 419.530.GOLD (4653).

National spotlight



The University of Toledo ranks third in the nation with 13 football players on its roster who have already received their bachelor's degrees, according to information released by the National Football Foundation last week. Of the 13 Rockets with bachelor's degrees, nine are pursuing master's degrees, two are working toward a second bachelor's degree, and two are undecided or waiting on their acceptance into a master's program. Posing with Head Coach Jason Candle are some of the 20 players who graduated last spring, from left: Sami Kassem, Jack Linch, Mike Ebert, Liam Allen, John Stepec, Brant Weiss, Marquise Moore, Kennedy Frazier, Delando Johnson, Cory Jones and Sam Vucelich.

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# Local students with disabilities spend summer living on campus for college prep

By Christine Billau

“This has been eye-opening and life-changing,” said 21-year-old Elijah Shaffer of Toledo as he waits patiently in his wheelchair for the elevator at Horton International House, a residence hall on The University of Toledo Main Campus.

He is one of nine local students with disabilities, most still in high school, spending five weeks this summer living on campus and working at local companies and organizations as part of an Ability Center of Greater Toledo program designed to prepare them for college, provide them with job experience, and boost their independence.

“I was so nervous,” said 18-year-old Ana McGuire, who will be a senior at Northview High School in Sylvania in the fall and uses a cochlear implant to hear and American Sign Language. “This is the first time I’ve been away from my family for a long period of time.”

McGuire spends her days working with children at the Toledo Museum of Art’s Family Center. In the evenings, she does her own cooking, cleaning and laundry at International House.

The Ability Center provides staff that serve the role of a resident supervisor. They stay in the residence hall suites with the students to provide supervision and any accommodations needed related to their disability.

“The other night I made spaghetti and meatballs,” said Donny Stewart, a 17-year-old living with autism who will be a senior at Central Catholic High School in the fall. “I’m learning to live with other people, be more responsible, and make sure I have clean clothes. Mom is not here to do it for me.”

This marks the second year of the Next Steps Summer Program, a component of The Ability Center of Greater Toledo’s Life Skills Department and comprised of community partners.

“The Toledo Museum of Art participates in the Next Steps Summer Program because, as an employer in the community, it’s our responsibility to help all people acquire the necessary skills to become gainfully employed,” Siccorah

Martin, human resources manager at the Toledo Museum of Art, said.

17-year-old Alex Bentley of Perrysburg works at the Toledo Area Humane Society walking and cleaning dogs and cats.

“This experience is awesome,” said Bentley, who lives with Williams syndrome and has had a stroke. “Making new friends is the best part. We’ve gone to Dave & Buster’s, out for ice cream, and next we’re attending a Mud Hens game together.”

“I’ve learned a lot about myself and the people around me,” said Shaffer, a student at Herzing University. “I got to show my true colors.”

Shaffer started experiencing symptoms of cerebral palsy at the age of 3 and uses a wheelchair for long distances. The Rogers High School graduate has a limited range of motion and goes to physical therapy to strengthen his legs.



Photo by Christine Billau

**ART WORK:** Ana McGuire, center, worked with children at the Toledo Museum of Art’s Family Center. McGuire, who will be a senior at Northview High School in the fall, uses a cochlear implant to hear and American Sign Language.

For employment experience as part of the program, Shaffer works at Preferred Properties, a nonprofit that helps people with disabilities buy homes.

“I’m really enjoying my summer here and also giving back to people like me,” Shaffer said. “It’s incredible to live in a residence hall with a roommate just like my friends. I feel better about myself. Coming here raised the bar for me.”

The program ends Thursday, Aug. 10. “Our goal is to impact the students now and prepare them for the future as they enter the workforce,” said Mallory Tarr,



Photo by Daniel Miller

**READING UP:** Donny Stewart read a book outside the Horton International House while waiting for the bus to take him to work at the Toledo Museum of Art. Stewart lives with autism and will be a senior at Central Catholic High School in Toledo in the fall.



Photo by Daniel Miller

**BUS STOP:** Waiting outside the Horton International House for the bus to take them to work, were, from left, 17-year-old Alex Bentley of Perrysburg, 19-year-old Zach Cotton of Galion, 17-year-old Donny Stewart of Sylvania, 21-year-old Elijah Shaffer of Toledo, and 18-year-old Ana McGuire of Sylvania.

## Steppin' out: Campus community invited to join Walking for Wellness

When you're heading out the door for work or class, don't forget to bring your sneakers.

"Walking just 15 minutes each day has been proven to produce many benefits, such as increased energy, improved mood, lowered risk of heart disease and stronger memory," Andrea Masters, assistant director of community wellness and health programming, said.

Rocket Wellness staff will lead one walk each month on Main and Health Science campuses on the second and fourth Fridays, weather permitting.

"Healthy U is dedicated to helping our UT community take small steps toward improved health," Masters said. "Last year, we mapped and marked walking paths on Main Campus, Health Science Campus and Scott Park Campus. Each route provides

a safe and clear path members of our UT community can use to walk at their leisure."

Walking for Wellness sessions will take place at noon on Fridays:

- Aug. 11 on Health Science Campus;
- Aug. 25 on Main Campus;
- Sept. 8 on Health Science Campus;
- Sept. 22 on Main Campus;
- Oct. 13 on Health Science Campus; and
- Oct. 27 on Main Campus.

Meet at the Healthy U walking paths; for maps, go to [utoledo.edu/offices/rocketwellness/healthyu/otherresources.html](http://utoledo.edu/offices/rocketwellness/healthyu/otherresources.html).

"Campus leaders will be invited to join us for conversation and activity," Masters added.



# HEALTHY U

*A healthy U is a healthy UT*

## Kick-off party for Back-to-School Drive to be held Aug. 10

By Christine Billau

The University of Toledo Judith Herb College of Education Alumni Affiliate is hosting its annual drive for new shoes, socks and underwear for students in Toledo Public Schools.

Alumni also will be collecting belts this year based on feedback from school administrators.

The kick-off party is Thursday, Aug. 10, from 5:30 to 7:30 p.m. at Social Gastropub in the Gateway Plaza on the corner of Dorr Street and Secor Road.

Donations will be collected during the event, and participants can sample free appetizers.

"We talk with school principals every year to see what students need," said Mike Bader, president of the Judith Herb College

of Education Alumni Affiliate. "As part of our mission to give back to our community, we are hoping to fill the great need for shoes, socks, underwear and belts."

Gym shoes and dress shoes are needed for students in grades K-8 in youth and small adult sizes. The shoe sizes needed most are children's sizes 1 to 6 or toddler sizes 10 to 13.

Underwear donations are needed for younger students.

Donations can be dropped off Monday through Friday from 8:15 a.m. to 5 p.m. in Driscoll Alumni Center Room 2014 on Main Campus before Thursday, Sept. 14.

For more information, visit [toledoalumni.org](http://toledoalumni.org) or call 419.530.2586.



**JUDITH HERB  
COLLEGE OF EDUCATION**

THE UNIVERSITY OF TOLEDO

## Accessibility improvements

*continued from p. 2*

Audit and Compliance Department and Facilities and Construction Department.

"UT is a recognized leader in providing a welcoming environment for students, patients and employees with disabilities," said David Cutri, executive director of internal audit and chief compliance officer. "These accessibility improvements are the most recent example of our strong partnership with the Facilities team in promoting an inclusive environment for all."

Enjie Hall, UT director of accessibility and student disability services, helped prioritize the building list and items that are being addressed for each building.

"We wanted to take care of academic buildings that would benefit the largest number of students, faculty and staff," she said. "These crucial changes will improve the usability of facilities for everyone at the University while providing better access to people with disabilities."

"Within each building, priority was given to addressing accessibility issues at entrances, restrooms, stairs and drinking fountains as a way to maximize the impact of available funding," Klett added.

Funding for the project includes \$500,000 from the state's capital appropriation for fiscal year 2017-18.

Other buildings on Main Campus that are part of the project are the Center for

Performing Arts, Rocket Hall, the Law Center and McMaster Hall.

On Health Science Campus, improvements will be made in the Health Education Building and Collier Building.

"The scope of work includes such items as installing automatic door operators; modifying doors and door hardware; installing handrails and extensions; and resolving accessibility concerns at drinking fountains and restrooms, resulting in greater accessibility to and within campus facilities," Klett said. "The work is scheduled to be completed by the end of October."

Mary L. Glowacki of Toledo is the architect of the project, and the Spieker Co. in Perrysburg is the general contractor.

"We apologize for what I hope will be minor inconveniences as we work to make these important improvements to accessibility on campus," Klett said.

"This is a huge step toward fostering an inclusive environment for people with disabilities at UT," Hall said. "These improvements will remove environmental barriers, which allow individuals to function with greater independence."

## In memoriam

**Betty J. Gentry**, Toledo, who worked in the UT Personnel Office for 22 years until her retirement in 1992, died July 22 at age 85.

**Dr. Kenneth B. Krakoff**, Toledo, a clinical associate in dentistry from 1974 to 1978, died Aug. 2 at age 92. In 1977, he helped organize and directed a Division of Dentistry in the Department of Surgery at MCO. Krakoff was a supporter of the Global Medical Mission Hall of Fame Foundation.

**Sharon R. "Rosebud" Matuszewski**, Toledo, who was a student loan specialist in the Treasurer's Office from 2002 to 2007, died July 15 at age 57.

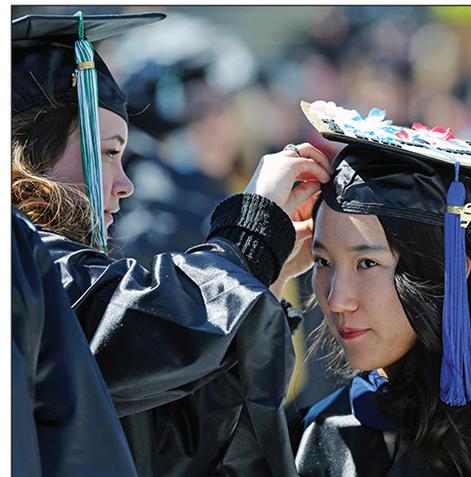
**Dr. Karleen Middleton Quin Murphy**, Toledo, who joined the English Department as a lecturer in 1960 and taught classes for nearly three decades, died July 23 at age 81. A UT alumna, she received a doctor of philosophy degree in English in 1979. Memorial contributions may be made to a fund of the donor's choice at [give2ut.utoledo.edu](http://give2ut.utoledo.edu).

**Olivia Alnutt Murphy**, Toledo, a charter member of the Satellites Auxiliary when the volunteer organization was established in 1975, died July 24 at age 96.

**Mildred "Carol" (Gaynier) Puhl**, Maumee, former UT employee in the College of Education, died July 24 at age 72.

## Correction

In the July 10 issue, a location was incorrect in a photo caption that appeared with a story about business students studying abroad. The students were in front of the Brandenburg Gate in Berlin.



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