

## UT leading \$10 million NASA project to develop hands-on K-12 science curriculum

By Meghan Cunningham

A University of Toledo researcher is leading a \$10 million NASA project that will transform the way science is taught to students throughout the country.

Dr. Kevin Czajkowski, UT professor of geography and planning, is spearheading the development of new K-12 science curriculum that relies on hands-on experiments to build knowledge using the resources of NASA and education partners across the country.

“Science is much more fun when you do science,” Czajkowski said. “It is not enough to conduct preplanned experiments in the classroom or a lab and expect the students to follow the steps and get excited about scientific discovery. We need to get more students outside taking real observations in the world around them so they can use the data that they collected themselves to answer questions and solve problems.”

UT’s project is one of 27 funded with a \$42 million commitment from NASA’s Science Mission Directorate to engage learners of all ages in NASA science education programs and activities.

“NASA seeks to innovate, explore, discover and inspire, and these selections build upon a legacy of excellence from our science education community,” said Dr. John Grunsfeld, astronaut and associate administrator of the NASA Science Mission Directorate. “STEM education is the enabler of future space exploration, and these awards, together with efforts in NASA’s

*continued on p. 2*



Photo by Daniel Miller

**RIVERSIDE SCIENCE:** Dr. Kevin Czajkowski, UT professor of geography and planning, showed his son, Timmy, 12, and Mackenzie Rofkar, 7, how to measure water taken from the Ottawa River.

## College of Business and Innovation featured in 2016 Princeton Review

By Bob Mackowiak

The UT College of Business and Innovation is one of the nation’s best business schools, according to the education services company, The Princeton Review, which features the school in the 2016 edition of its guide, *The Best 295 Business Schools*.

The Princeton Review surveyed 22,000 students attending the 295 business schools. The 80-question survey asked students to rate their schools on several topics and report on their experiences at them. Some ranking list tallies also factored in school-reported data.

Their report states, “One of the best in the Midwest, the MBA program at The University of Toledo features affordability and flexibility that help you expand your skills and opportunities without interrupting your career. The college’s history of excellence in practical, relevant education based on cutting-edge research and business

*continued on p. 7*

## Astronomy researcher receives grant to study star lifecycles

A University of Toledo astronomer’s research will help shed light on two poorly understood stages in the lifecycle of a star cluster — just before they are born and very soon after they form.

Dr. Rupali Chandar, UT associate professor of astronomy, is the principal investigator for “The Birth and Death of Stellar Clusters: Uncloaking the Roles of Stars, Gas and Physical Environment in Nearby Galaxies,” a study that was recently awarded a \$270,000 grant from the National Science Foundation.

“This new funding from the National Science Foundation will allow me and my team to answer some fundamental questions about star cluster formation and dissolution

*continued on p. 6*



Chandar

## Attorney/CEO to discuss law, business and Lance Armstrong

By Samantha Watson



Tygart

de France winner Lance Armstrong.

Wednesday, Nov. 4, at 7 p.m. in The University of Toledo’s Doermann Theater,

As CEO of the United States Anti-Doping Agency, or USADA, Travis T. Tygart was involved in one of the most high-profile cases when he and his agency took on seven-time Tour

hear Tygart talk about that case and more at the Edwin Dodd Distinguished Lecture Series in Business Ethics.

The lecture, named for former Owens-Illinois chairman Edwin Dodd, seeks to start a conversation about ethics while bringing together the fields of business and law.

“The case is interesting and well-known,” said Dr. Gary S. Insch, dean of the College of Business and Innovation. “It crosses the boundaries of both areas; there is the obvious legal aspect to this, but Lance Armstrong used his name to create a business. Certainly there are business ethics questions associated with this.”

*continued on p. 6*

## International ranking with greater research emphasis rates UT well among Ohio universities

By Jon Strunk

An international ranking for institutions of higher education that emphasizes research and a school's dissemination of knowledge placed The University of Toledo in good standing among its Ohio peers and provides a benchmark against which UT can judge future improvements.

This is the first time the University has submitted data to the Times Higher Education World University rankings, which listed UT in the range between 501 and 600 of all institutions of higher education worldwide.

The Times Higher Education rankings provide a greater balance between undergraduate education and graduate education and research than rankings such as those in U.S. News and World Report that are heavily weighted toward undergraduate studies, said Dr. Ying Liu, UT director of institutional research.

"While no rankings method is perfect, all can be useful as long as you have a clear sense of what is being measured," Liu said. "The Times Higher Education rankings provide a clearer measure of UT as a national research university and all that designation implies."

Given the international nature of this evaluation of universities, institutions

with greater levels of global diversity at the student and employee levels were rated higher. Universities whose faculty co-authored research papers with at least one researcher from another country also benefited.

"One of my primary goals is to elevate this University's national and international standing," said UT President Sharon L. Gaber. "And a big part of that is knowing where we stand today."

"These rankings show we are positioned fairly well among Ohio public universities. Our work in the years ahead will be to move that forward on a national level," Gaber said.

Times Higher Education World University Rankings:

- 90 — Ohio State University – Main Campus
- 301-350 — University of Cincinnati – Main Campus
- 501-600 — The University of Toledo
- 501-600 — Kent State University at Kent
- 601-800 — Ohio University – Main Campus
- 601-800 — Miami University – Oxford

## Search process finalized for provost position

By Jon Strunk

The University of Toledo has finalized plans for the search process for the institution's next provost and executive vice president for academic affairs and is asking the campus community for help identifying candidates for the position.

Co-chaired by Dr. Kaye Patten Wallace, senior vice president for student affairs, and Dr. Christopher Ingersoll, dean of the College of Health Sciences, the search committee aims to bring finalists to UT for on-campus interviews in early February.

"As a valued member of our University community, we would like your help in identifying candidates for this position," they wrote in a letter sent to the UT community.

The letter also pointed readers to a website, [utoledo.edu/offices/provost/provostsearch/index.html](http://utoledo.edu/offices/provost/provostsearch/index.html), established for the search that includes the position description, lists the members of the search committee and the search timeline, and includes an overview of the University for prospective candidates.

"UT's next provost will play a critical leadership role as we develop a strategic plan, refocus our enrollment and recruiting efforts, and enhance an academic culture that strengthens northwest Ohio and earns national recognition," said UT President Sharon L. Gaber.

## NASA

continued from p. 1

Office of Education and other partners, will advance STEM efforts in this country, improve U.S. scientific literacy, and help to inspire our nation."

"This project is a perfect example of the innovative research underway at The University of Toledo that advances knowledge in ways that have profound impacts on our world," UT President Sharon L. Gaber said. "Dr. Czajkowski's work will inspire students across the country to make scientific discoveries in the world around them. These real-life experiences will spark the imagination of the next generation of scientists, engineers and doctors."

The project, called "MISSION EARTH: Fusing GLOBE With NASA Assets to Build Systemic Innovation in STEM Education," will leverage the resources of both NASA and Global Learning and Observations to Benefit the Environment (GLOBE), which is an international science and education program that connects students, teachers, scientists and citizens from different parts of the world to conduct real, hands-on science about their local environment and put it in a global perspective.

The idea is to use GLOBE resources to get students out taking observations that they can then use with NASA satellite imagery to answer their own research questions, Czajkowski said.

"It is important for students to have the opportunity for trial and error, to do outside measurements in an environment where they cannot control all the variables but need to account for them in their data," he said. "It's about changing the curriculum for the next generation of science standards."

For example, as a GLOBE scientist, Czajkowski worked with an educator in the Dominican Republic whose class embarked on a surface temperature project using an infrared thermometer to observe temperatures around the school and compare those from a grassy field to those in a parking lot. The paved surfaces were more than 42 degrees hotter than the grass, which posed a problem for the playground on an artificial surface that absorbs and stores heat. The experiment continued with the class looking for ways to reduce the heat and that led the school to paint the playground surface green, which was successful in lowering the temperature some 37 degrees.

Part of the appeal of the MISSION EARTH project, Czajkowski said, is the diversity of the partners with expertise in



Czajkowski

different levels of education. Along with UT that has expertise in middle school project-based science, the partners include WestEd, a research and service agency in San Francisco with expertise in high school career readiness; Boston University, which specializes in elementary and college engineering practices; and Tennessee State University, which will provide its expertise in college service learning. The University of California at Berkeley, NASA Langley Research Center and the technology company Raytheon also are partners on the project.

Together, they will create a K-12 progression of activities that build upon each other as the students complete each grade. The learning materials will be provided, and teachers will be supported and engaged throughout the program.

MISSION EARTH also will connect students with GLOBE's new citizen science initiative and provide service experiences for undergraduate students studying to be teachers.

Working with Czajkowski at UT will be Dr. Glenn Lipscomb, professor and chair of the Department of Chemical and Environmental Engineering, and Dr. Mark Templin, associate professor in the Department of Curriculum and Instruction.

Other partners on the project are Dr. Peter Garik, Dr. Bruce Anderson and Dr. Magaly Koch of Boston University; Dr. Svetlana Darche and Dr. Matt Silbergliitt of WestEd; Dr. Ronald Cohen of UC Berkeley; Dr. David Padgett of Tennessee State; Dr. Jessica Taylor of NASA Langley Research Center; and Dr. David Overoye of Raytheon.

## UTMC praised for cancer care

By Brandi Barhite

The University of Toledo Medical Center is being lauded for providing quality care to cancer patients.

The Commission on Cancer of the American College of Surgeons recently presented UTMC with the 2015 Outstanding Achievement Award.

UTMC is one of a select group of only 20 U.S. health-care facilities with accredited cancer programs to receive this national honor for surveys performed Jan. 1 to June 30. The award acknowledges cancer programs that achieve excellence in providing quality care to cancer patients.

“We are honored to be recognized as one of the top cancer centers in the United States,” said Allen Seifert, administrative director of the Eleanor N. Dana Cancer Center. “We take immense pride in offering life-saving care because our patients and their treatment and recovery is always our No. 1 priority.”

The purpose of the award is to raise awareness on the importance of providing quality cancer care at health-care institutions throughout the United States. In addition, it is intended to:

- Motivate other cancer programs to work toward improving their level of care;
- Facilitate dialogue between award recipients and health-care professionals at other cancer facilities

for the purpose of sharing best practices;

- Encourage honorees to serve as quality-care resources to other cancer programs; and
- Educate cancer patients on available quality-care options.

Seifert said UTMC specializes in treating a variety of cancers that include blood cancer, lung and respiratory cancer, breast cancer, urinary system cancer and prostate cancer, among others.

UTMC is the only hospital in town offering an innovative non-invasive radiosurgery treatment option using the latest technology.

The Edge radiosurgery system can destroy tumors — smaller than half a centimeter — with high doses of focused radiation beams. The high-dose radiation can target difficult-to-reach tumors, such as those in the brain, with better precision radiation treatments that can be just 15 minutes, compared to one hour for other types of radiation therapy.

“Our 2015 Outstanding Achievement Award solidifies our standing as one of the top cancer centers, but it doesn’t mean we are going to stop improving,” Seifert said. “We always strive to provide the highest level of cancer diagnosis, treatment and support.”



The Eleanor N. Dana Cancer Center is the home of the Edge radiosurgery system.

## Photo finish



Photo by Daniel Miller

UT President Sharon L. Gaber, Dr. Robert Bartlett, professor emeritus of surgery at the University of Michigan, center, and Dr. S. Amjad Hussain, UT professor emeritus of thoracic and cardiovascular surgery and member of the University Board of Trustees, posed for a photo Oct. 21 after the Hussain Visiting Lecture in the History of Medicine and Surgery. Bartlett gave a talk titled “Romance, Science and the White Plague,” and he discussed the science behind finding the cause of tuberculosis and how not knowing the source of the disease led to strange remedies.

## University extends vacant position holds to address shortfall created by lower enrollment

By Jon Strunk

Beginning Jan. 1, The University of Toledo will increase its current 60-day hold on replacing vacant positions to eight months in an effort to fill an estimated \$11.5 million budget shortfall created in the fiscal year as UT’s enrollment did not meet budgeted estimates.

UT President Sharon L. Gaber said she understands the difficulty the move will create for some departments, but emphasized her desire to limit the negative impact to members of the University community and avoid the elimination of filled positions.

“I recognize the burden this will place on some departments, and I know that people in many areas are already performing increased duties as a result of prior cutbacks,” Gaber wrote. “However, when compared to laying off employees, hopefully all will agree that the hiring delay is a far preferable cost-savings measure to the long-term impact a layoff can have on an employee and his or her family members.”

Gaber said positions involved in direct patient care, admissions and enrollment activity, student services, or campus safety and security will be exempt from the eight-month hold.

Officials anticipate the eight-month hold will result in savings of \$5 million or

more during the first half of 2016, and the president emphasized that UT cannot use extra compensation to make up for the lack of personnel or no savings will be realized.

“Since the day I started at UT, I have made the commitment that during my presidency, this University will be open and transparent as we confront our challenges,” Gaber said. “I appreciate your cooperation in implementing this new strategy and your understanding as the UT community pulls together to continue serving our students and patients. Thank you for all you do that is contributing to our bright future.”

The president said additional ideas are under consideration to close the remaining budget shortfall and will be announced later this fiscal year.

Gaber also pointed to the shortfall in explaining the need for a partnership with enrollment consultant Ruffalo Noel Levitz.

“We’re working with Ruffalo Noel Levitz now to help ensure we don’t face budget shortfalls due to a lack of enrollment growth in the future,” she said. “The only way we’re going to be successful is to grow our way out of these challenges. And the only way we’ll grow is by recruiting and graduating strong students at the graduate and undergraduate levels.”

# Rockets tabbed to finish second in MAC's West Division

By Steve Easton

The Toledo men's basketball team was picked to finish second in the West Division in the 2015-16 Mid-American Conference Men's Basketball Preseason Poll released last week.

The poll was determined by a 23-member MAC Media Panel.

The Rockets received 110 points, trailing only defending MAC regular-season co-champion Central Michigan's total of 138 points. The Chippewas were the unanimous selection to win the West Division by receiving all 23 first-place votes.

Following Toledo in the West were Western Michigan (94), Eastern Michigan (71), Northern Illinois (37) and Ball State (33).

Akron has been tabbed as the East Division winner with 17 first-place votes and 132 points. The Zips were followed by Kent State (116 points, five first-place votes), Ohio (69 points.), Buffalo (64 points, one first-place vote), Miami (60 points) and Bowling Green Ohio (42 points)

The Chippewas also were picked to win the MAC Tournament by 15 voters followed by Akron (6), Buffalo (1) and Kent State (1).

UT senior center Nathan Boothe was named to the Preseason All-MAC West Division squad along with the CMU's Chris Fowler and John Simons, EMU's Raven Lee and WMU's Connor Tava.

The Preseason All-MAC East Division team included Akron's Pat Forsythe, Buffalo's Lamonte Bearden, Kent State's Jimmy Hall, Miami's Eric Washington and Ohio's Antonio Campbell.

Head Coach Tod Kowalczyk is entering his sixth season at UT's helm and has orchestrated a dramatic turnaround since his arrival in 2010. He has guided the Midnight Blue and Gold to back-to-back 20-win seasons for the first time since the program posted five straight such seasons from 1976 to 1981. Toledo also has won a Mid-American Conference-best 47 victories over the last two years, the most in a two-year period in program history.

The Rockets are returning two starters in 2015-16, Boothe and junior guard Jonathan Williams, as well as three additional letterwinners — junior guard Jordan Lauf, junior center Zach Garber and sophomore guard Stuckey Mosley. Boothe averaged 10.0 points per game and 5.7 rebounds per game en route to earning honorable-mention All-MAC honors, while Williams tallied 10.2 points per game and 3.4 rebounds per game.

Toledo will hit the floor for the first time Saturday, Nov. 7, when it faces NCAA Division II foe Hillsdale in an exhibition contest at 2:30 p.m. in Savage Arena. It will follow the Rocket women's basketball squad's exhibition matchup vs. Findlay at noon.

UT will open its regular season Saturday, Nov. 14, at home vs. West Virginia Tech before visiting Youngstown State Wednesday, Nov. 18.

## 2015-16 TOLEDO MEN'S BASKETBALL SCHEDULE

| DAY        | DATE       | OPPONENT                     | LOCATION          | TIME           |
|------------|------------|------------------------------|-------------------|----------------|
| SAT.       | NOV. 7     | HILLSDALE (DH) (EXHIBITION)  | SAVAGE ARENA      | 2:30 P.M.      |
| SAT.       | NOV. 14    | WEST VIRGINIA TECH (DH)      | SAVAGE ARENA      | 2:30 P.M.      |
| Wed.       | Nov. 18    | at Youngstown State          | Youngstown, OH    | 7:05 p.m.      |
| Sat.       | Nov. 21    | at Loyola (IL)               | Chicago, IL       | 4 p.m. (CT)    |
| Wed.       | Nov. 25    | vs. San Jose State#          | Anchorage, AK     | 7:30 p.m. (AT) |
| Fri.       | Nov. 27    | Opponent TBA#                | Anchorage, AK     | TBA            |
| Sat.       | Nov. 28    | Opponent TBA#                | Anchorage, AK     | TBA            |
| WED.       | DEC. 2     | CLEVELAND STATE              | SAVAGE ARENA      | 7 P.M.         |
| Sun.       | Dec. 6     | at Green Bay                 | Green Bay, WI     | 2 p.m. (CT)    |
| Wed.       | Dec. 9     | at Detroit (DH)              | Detroit, MI       | 4 p.m.         |
| SAT.       | DEC. 12    | OAKLAND                      | SAVAGE ARENA      | 7 P.M.         |
| SAT.       | DEC. 19    | BETHUNE COOKMAN              | SAVAGE ARENA      | 7 P.M.         |
| MON.       | DEC. 21    | NORTH CAROLINA A&T           | SAVAGE ARENA      | 7 P.M.         |
| WED.       | DEC. 30    | NORTHERN KENTUCKY            | SAVAGE ARENA      | 7 P.M.         |
| Wed.       | Jan. 6     | at Ball State*               | Muncie, IN        | 7 p.m.         |
| Sat.       | Jan. 9     | at Miami*                    | Oxford, OH        | 4 p.m.         |
| TUE.       | JAN. 12    | NORTHERN ILLINOIS*           | SAVAGE ARENA      | 7 P.M.         |
| SAT.       | JAN. 16    | AKRON*                       | SAVAGE ARENA      | 7 P.M.         |
| Tue.       | Jan. 19    | at Bowling Green*            | Bowling Green, OH | 7 p.m.         |
| Sat.       | Jan. 23    | at Northern Illinois*        | DeKalb, IL        | 3:30 p.m. (CT) |
| TUE.       | JAN. 26    | OHIO*                        | SAVAGE ARENA      | 7 P.M.         |
| SAT.       | JAN. 30    | BUFFALO*                     | SAVAGE ARENA      | 7 P.M.         |
| TUE.       | FEB. 2     | WESTERN MICHIGAN*            | SAVAGE ARENA      | 7 P.M.         |
| Sat.       | Feb. 6     | at Kent State* (DH)          | Kent, OH          | 7 p.m.         |
| Tue.       | Feb. 9     | at Buffalo*                  | Buffalo, NY       | 7 p.m.         |
| SAT.       | FEB. 13    | MIAMI*                       | SAVAGE ARENA      | 7 P.M.         |
| Tue.       | Feb. 16    | at Central Michigan*         | Mt. Pleasant, MI  | 7 p.m.         |
| Sat.       | Feb. 20    | at Eastern Michigan*         | Ypsilanti, MI     | Noon           |
| TUE.       | FEB. 23    | BALL STATE*                  | SAVAGE ARENA      | 8 P.M.         |
| SAT.       | FEB. 27    | CENTRAL MICHIGAN*            | SAVAGE ARENA      | 7 P.M.         |
| Tue.       | Mar. 1     | at Western Michigan*         | Kalamazoo, MI     | 7 p.m.         |
| FRI.       | MAR. 4     | EASTERN MICHIGAN*            | SAVAGE ARENA      | 7 P.M.         |
| Mon.       | Mar. 7     | MAC Tournament - First Round | Campus Sites      | TBA            |
| Thur.-Sat. | Mar. 10-12 | MAC Tournament               | Cleveland, OH     | TBA            |

Schedule is subject to change • \* Mid-American Conference game • # Great Alaska Shootout • HOME GAMES IN BLUE  
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# Toledo predicted to finish fourth in MAC's West Division

By Brian DeBenedictis

The Mid-American Conference announced its annual women's basketball preseason poll with Toledo being selected to finish fourth in the West Division, according to a vote of the league's 12 head coaches.

Additionally, sophomore Jay-Ann Bravo-Harriott was selected to the Preseason All-MAC West Division squad.

Joining Bravo-Harriott on the West Division squad were Ball State's Nathalie Fontaine and Jill Morrison, Eastern Michigan's Cha Sweeney and Western Michigan's Miracle Woods.

The Rockets trailed Eastern Michigan, reigning MAC West Division champion Ball State and Western Michigan in the voting. Central Michigan was pegged fifth in the MAC West, while Northern Illinois rounded out the division.

Defending MAC regular-season and MAC Tournament champion Ohio was picked to win the East Division, followed by Akron, Bowling Green, Miami, Buffalo and Kent State.

The East Division squad is comprised of Ohio's Kiyanna Black and Quiera Lampkins, Akron's Anita Brown, Bowling Green's Erica Donovan and Akron's Hannah Plybon.

Four different squads also received votes to capture the MAC Tournament at Quicken Loans Arena in Cleveland, led by the Bobcats with five. The Cardinals and Eagles also collected three votes each, while the Bulls registered one vote. The winner of

the MAC tourney receives an automatic bid to the NCAA Tournament.

A year ago, Toledo finished with a 19-14 overall record and a 10-8 ledger in the MAC. The Rockets made their 10th overall appearance in the Postseason WNIT in 2015 and fifth in the last seven years under Head Coach Tricia Cullop.

The Midnight Blue and Gold defeated Horizon League member Wright State, 72-64, in the first round before falling to Big Ten affiliate and eventual Postseason WNIT semifinalist Michigan, 74-58, in the second round at home.

UT's roster in 2015-16 will consist of two seniors, two juniors, five sophomores and five freshmen. As far as numbers go, the Rockets welcome back 75.5 percent of their scoring, 80.8 percent of their rebounding, 58.7 percent of their assists, and 62.2 percent of their steals for this season.

Bravo-Harriott, a 5-foot-10 guard, poured in a team-high 14.3 points in 31.6 minutes as a starter over the final 13 games from Feb. 7 through March 23.

The 2014-15 MAC Freshman of the Year scored in double figures in 10 contests during this stretch, including a season-best 30 points vs. Eastern Michigan in the second round of the MAC Tournament.

Bravo-Harriott buried a season-high and school-tourney tying best seven treys against the Eagles and became the first Rocket to score at least 30 points in a matchup since Naama Shafir poured in 40 against USC in the championship game of

the 2011 Postseason WNIT in 2011.

Overall in 2014-15, Bravo-Harriott averaged 10.4 points, 3.1 rebounds, 1.5 assists and 0.6 steals in 24.9 minutes per game. She ranked seventh in the MAC in three-point field goals made (2.1), 11th in three-point field goal percentage (.356, 64 of 180), and 20th in scoring.

The first-year Rocket scored in double figures on 17 occasions during the season, the second-highest total on the team. The London, England, native also led UT in scoring eight times, steals on six occasions, and assists and blocked shots twice.

In MAC contests, Bravo-Harriott tallied 11.0 points per game, 3.4 rebounds per game, 1.9 assists per game and 0.9 steals per game in 27.1 minutes per game. She finished fifth in the conference in three-point field goal percentage (.386, 39 of 101), seventh in three-point field goals made

(2.2), 11th in overall field goal percentage (.441, 71 of 161) and 19th in scoring.

Toledo will open its exhibition season Saturday, Nov. 7, against NCAA Division II member Findlay at noon in Savage Arena. UT's regular season will commence seven days later Saturday, Nov. 14, vs. Arizona at noon at home.

## 2015-16 TOLEDO WOMEN'S BASKETBALL SCHEDULE

| DAY      | DATE       | OPPONENT                             | LOCATION           | TIME        |
|----------|------------|--------------------------------------|--------------------|-------------|
| SAT.     | NOV. 7     | FINLAY (DH) (EXHIBITION)             | SAVAGE ARENA       | NOON        |
| SAT.     | NOV. 14    | ARIZONA (DH)                         | SAVAGE ARENA       | NOON        |
| Wed.     | Nov. 18    | at Notre Dame                        | South Bend, IN     | 7 p.m.      |
| Sat.     | Nov. 21    | vs. Albany!                          | Kingston, RI       | 3 p.m.      |
| Sun.     | Nov. 22    | vs. Opponent TBA!                    | Kingston, RI       | TBA         |
| Sun.     | Nov. 29    | at St. Bonaventure                   | Olean, NY          | 1 p.m.      |
| WED.     | DEC. 2     | DAYTON#                              | SAVAGE ARENA       | 11 A.M.     |
| Sat.     | Dec. 5     | vs. Columbia^                        | Tempe, AZ          | 4:30 (MT)   |
| Sun.     | Dec. 6     | vs. Opponent TBA^                    | Tempe, AZ          | TBA         |
| SAT.     | DEC. 12    | CLEVELAND STATE                      | SAVAGE ARENA       | 2 P.M.      |
| Sun.     | Dec. 20    | at Illinois-Chicago                  | Chicago, IL        | 3 p.m. (CT) |
| TUE.     | DEC. 29    | ARKANSAS-PINE BLUFF                  | SAVAGE ARENA       | 7 P.M.      |
| Sat.     | Jan. 2     | at Ball State*                       | Muncie, IN         | 2 p.m.      |
| WED.     | JAN. 6     | KENT STATE*                          | SAVAGE ARENA       | 7 P.M.      |
| SAT.     | JAN. 9     | WESTERN MICHIGAN*                    | SAVAGE ARENA       | 2 P.M.      |
| Wed.     | Jan. 13    | at Miami*                            | Oxford, OH         | 7 p.m.      |
| SAT.     | JAN. 16    | NORTHERN ILLINOIS*                   | SAVAGE ARENA       | 2 P.M.      |
| Wed.     | Jan. 20    | at Akron*                            | Akron, OH          | 7 p.m.      |
| Sat.     | Jan. 23    | at Eastern Michigan*                 | Ypsilanti, MI      | 2:30 p.m.   |
| SAT.     | JAN. 30    | BOWLING GREEN*                       | SAVAGE ARENA       | 2 P.M.      |
| Wed.     | Feb. 3     | at Western Michigan*                 | Kalamazoo, MI      | 7 p.m.      |
| Sat.     | Feb. 6     | at Kent State*                       | Kent, OH           | 5 p.m.      |
| WED.     | FEB. 10    | BUFFALO*                             | SAVAGE ARENA       | 7 P.M.      |
| SAT.     | FEB. 13    | OHIO*                                | SAVAGE ARENA       | 2 P.M.      |
| Wed.     | Feb. 17    | at Bowling Green*                    | Bowling Green, OH  | 7 p.m.      |
| Sat.     | Feb. 20    | at Central Michigan*                 | Mount Pleasant, MI | 1 p.m.      |
| WED.     | FEB. 24    | EASTERN MICHIGAN*                    | SAVAGE ARENA       | 7 P.M.      |
| Sat.     | Feb. 27    | at Northern Illinois*                | DeKalb, IL         | 1 p.m. (CT) |
| WED.     | MAR. 2     | CENTRAL MICHIGAN*                    | SAVAGE ARENA       | 7 P.M.      |
| SAT.     | MAR. 5     | BALL STATE*                          | SAVAGE ARENA       | 2 P.M.      |
| Mon.     | Mar. 7     | MAC Tournament - First Round         | Campus Sites       | TBA         |
| Wed.     | Mar. 9     | MAC Tournament                       | Cleveland, OH      | TBA         |
| Fri-Sat. | Mar. 11-12 | MAC Tournament (Quicken Loans Arena) | Cleveland, OH      | TBA         |

Schedule is subject to change • \* Mid-American Conference game • ! - URI Tournament (Kingston, RI) • # Educational Day • ^ - ASU Classic (Tempe, AZ) • HOME GAMES IN GOLD Listen to the Rockets on the Rocket Sports Properties Radio Network, WCVA AM-1230

**2015-16 SEASON**

|         |                        |                |              |         |                     |              |             |         |                    |                    |           |         |                     |               |             |
|---------|------------------------|----------------|--------------|---------|---------------------|--------------|-------------|---------|--------------------|--------------------|-----------|---------|---------------------|---------------|-------------|
| NOV. 7  | FINLAY (DH) EXHIBITION | SAVAGE ARENA   | NOON         | DEC. 12 | CLEVELAND STATE     | SAVAGE ARENA | 2 P.M.      | Jan. 23 | @Eastern Michigan* | Ypsilanti, MI      | 2:30 P.M. | Feb. 27 | @Northern Illinois* | DeKalb, IL    | 1 P.M. (CT) |
| NOV. 14 | ARIZONA (DH)           | SAVAGE ARENA   | NOON         | Dec. 20 | @Illinois-Chicago   | Chicago, IL  | 3 P.M. (CT) | JAN. 30 | BOWLING GREEN*     | SAVAGE ARENA       | 2 P.M.    | MAR. 2  | CENTRAL MICHIGAN*   | SAVAGE ARENA  | 7 P.M.      |
| Nov. 18 | at Notre Dame          | South Bend, IN | 7 P.M.       | DEC. 20 | ARKANSAS-PINE BLUFF | SAVAGE ARENA | 7 P.M.      | Feb. 3  | @Western Michigan* | Kalamazoo, MI      | 7 P.M.    | MAR. 5  | BALL STATE*         | SAVAGE ARENA  | 2 P.M.      |
| Nov. 21 | vs. Albany!            | Kingston, RI   | 3 P.M.       | Jan. 2  | @Ball State*        | Muncie, IN   | 2 P.M.      | Feb. 6  | @Kent State*       | Kent, OH           | 5 P.M.    | Mar. 7  | MAC Tournament      | Campus Sites  | TBA         |
| Nov. 22 | vs. Opponent TBA!      | Kingston, RI   | TBA          | JAN. 6  | KENT STATE*         | SAVAGE ARENA | 7 P.M.      | FEB. 10 | BUFFALO*           | SAVAGE ARENA       | 7 P.M.    | Mar. 9  | MAC Tournament      | Cleveland, OH | TBA         |
| Nov. 29 | @St. Bonaventure       | Olean, NY      | 1 P.M.       | JAN. 9  | WESTERN MICHIGAN*   | SAVAGE ARENA | 2 P.M.      | FEB. 13 | OHIO*              | SAVAGE ARENA       | 2 P.M.    | Mar. 11 | MAC Tournament      | Cleveland, OH | TBA         |
| DEC. 2  | DAYTON                 | SAVAGE ARENA   | 11 AM        | Jan. 13 | @Miami*             | Oxford, OH   | 7 P.M.      | Feb. 17 | @Bowling Green*    | Bowling Green, OH  | 7 P.M.    | Mar. 12 | MAC Tournament      | Cleveland, OH | TBA         |
| Dec. 5  | vs. Columbia^          | Tempe, AZ      | 4:30 PM (MT) | JAN. 16 | NORTHERN ILLINOIS*  | SAVAGE ARENA | 2 P.M.      | Feb. 20 | @Central Michigan* | Mount Pleasant, MI | TBA       |         |                     |               |             |
| Dec. 6  | vs. Opponent TBA^      | Tempe, AZ      | TBA          | Jan. 20 | @Akron*             | Akron, OH    | 7 P.M.      | FEB. 24 | EASTERN MICHIGAN*  | SAVAGE ARENA       | 7 P.M.    |         |                     |               |             |

Schedule is subject to change • \* Mid-American Conference game • ! - URI Tournament (Kingston, RI) • # Educational Day • ^ - ASU Classic (Tempe, AZ) • HOME GAMES IN GOLD Listen to the Rockets on the Rocket Sports Properties Radio Network, WCVA 1230AM

## Algae, pipelines topic of water conference Nov. 6

By Rachel Phipps

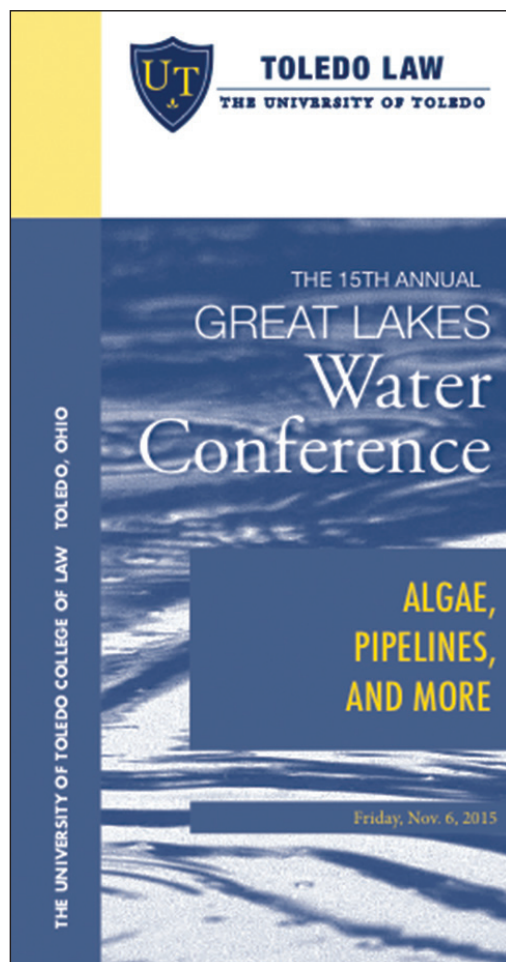
U.S. Congresswoman Marcy Kaptur will be the keynote speaker at the 15th annual Great Lakes Water Conference Friday, Nov. 6, in the Law Center.

The free, public conference, sponsored by the College of Law and its Legal Institute of the Great Lakes, will feature three panels of experts to discuss “Algae, Pipelines and More.”

The algae panel will explore legal solutions to the harmful algal blooms plaguing Lake Erie. The pipelines panel will focus on challenges arising from an important network of petroleum pipelines near valuable water resources. And the more hot topics speakers will discuss a controversial new rule defining the scope of the Clean Water Act, a recent Ohio Supreme Court decision impacting impaired waters, and a proposed diversion of water out of the Great Lakes basin.

“The conference will tackle key water issues that are not yet on many persons’ radar as well as problems that are currently weighing heavily on almost everyone’s mind,” said Kenneth Kilbert, director of the Legal Institute of the Great Lakes and professor of law.

The conference is free to the public. Registration is \$75 for attorneys seeking



4.5 hours of Ohio Continuing Legal Education.

For more information about the conference, visit [utoledo.edu/law/academics/ligl/conferences.html](http://utoledo.edu/law/academics/ligl/conferences.html).

## Attorney/CEO

continued from p. 1

Tygart was chosen to speak at this lecture not only because of this particular case, but because of the background he has that bridges the gap between business and law. Though he received his JD from Southern Methodist University in 1999, he pursued a different path than most lawyers.

“From our perspective, it’s great to have speakers on campus who went to law school and then ended up doing something different with their lives,” said Geoffrey Rapp, UT associate dean for academic affairs in the College of Law and the Harold A. Anderson Professor of Law and Values. “He has legal education but branched into a direction that a lot of people might not think is available if you go to get a JD. It’s nice for our students to get to see the diverse things someone can do after they go to law school.”

Under Tygart’s leadership, USADA’s efforts to protect clean athletes have included cooperating with federal authorities on numerous investigations such as the international steroid bust, Operation Raw deal, and the international doping conspiracy involving the Bay Area Laboratory Co-Operative in San Francisco.

Tygart also has been recognized by Sports Illustrated as one of the 50 most powerful people in sports; named to Time magazine’s 100 list of most influential people in the world for 2013; named one of the top 12 world sports personalities of the year by Sport Intern; selected as one of the world’s most influential sports personalities by Inside Sport; and was one of the Colorado lawyers of the year named by Colorado Law Weekly.

“I think he’s got some really valuable perspectives for our students, particularly people who might be thinking about law or business school, on how you conduct an internal investigation,” Rapp said, “which is different than how you would defend a criminal in a lawsuit.”

At 1 p.m. the day of the lecture, law students are invited to have “A Conversation With Travis Tygart,” moderated by Rapp and Benjamin G. Davis, UT associate professor of law. Held in the Law Center McQuade Law Auditorium, the event will offer an opportunity for students to ask Tygart questions and have a more personal conversation.

“It’s a chance to get some of his perspectives outside of the context of the more traditional, formal speech that he’ll be giving at the lecture in the evening,” Rapp said. “It will be a somewhat more personal dimension to the conversation.”

The free, public event later in the evening is geared toward students but open to anyone who wishes to attend.

“It’s a great opportunity to generate a conversation and talk about ideas like ethics,” Insch said. “That’s the whole point of a university, and that sometimes gets lost in the daily grind of just trying to get a degree.”

To attend the lecture, order free tickets at [utoledo.edu/honorslecture](http://utoledo.edu/honorslecture).

This lecture is co-hosted by the College of Business and Innovation and the College of Law, and sponsored by Dana Holding Corp. and Owens-Illinois Inc.

## Astronomy researcher

continued from p. 1

in nearby galaxies,” Chandar said. “We will take advantage of key new observations from premier ground-based telescopes in order to build on previous results based on data taken with the Hubble Space Telescope. A better understanding of the full lifecycle of star clusters, from birth to death, has important implications for many areas of astronomy.”

Star cluster formation is one of the most fundamental processes in galaxies and occurs over an incredibly diverse range of environments and physical conditions, far broader than those found in the Milky Way alone, Chandar said.

Observations from the National Science Foundation’s new Atacama Large

Millimeter Array, the most expensive ground-based telescope in operation, enable direct study of clouds in distant galaxies covering a much wider range of physical conditions than our nearest neighbors. The properties of these clouds, when compared with those of young star clusters in the same galaxy, provide important clues to understand the efficiency with which stars and clusters form under different physical conditions, she said.

“Dr. Chandar’s research grant is particularly noteworthy given the very competitive nature of research in the field of astronomy. Our faculty compete with colleagues from around the country for funding from federal agencies like

the National Science Foundation,” said Dr. William Messer, UT vice president for research. “Dr. Chandar’s success in garnering support for studies of star formation builds on our strong reputation in the natural sciences and provides exciting research and training opportunities for our students.”

The grant also will support Girls in Science, which is an all-day outreach event aimed to foster middle school girls’ interest in science through age-appropriate, hands-on activities.

“This grant award highlights the excellent work being done by Dr. Chandar and her team. The project will address the most fundamental questions about how

star clusters form in galaxies, improving our understanding of the processes that led to our universe today,” said Dr. Karen Bjorkman, dean of UT’s College of Natural Sciences and Mathematics. “It will expand our astronomers’ and students’ use of the most cutting-edge international astronomical facilities in the world such as the Atacama Large Millimeter Array, while simultaneously leveraging the strength of UT’s partnership with the Lowell Observatory and the Discovery Channel Telescope. It also continues our tradition of bringing the joy of discovery to our community through outreach, such as the Girls in Science program, to help inspire the next generation of scientists.”

## Professor emeritus/WWII vet to be honored Nov. 5

More than 70 years after answering his nation's call to service during World War II, University of Toledo Professor Emeritus Richard R. Perry will be presented the Soldier's Medal during a ceremony Thursday, Nov. 5, in Doermann Theater at 1 p.m.

A graduate of Waite High School, Perry enlisted in the U.S. Army in 1943 and was honorably discharged in 1946 with the rank of sergeant.

An accomplished academic who earned bachelor's, master's and doctoral degrees at UT, he spent 57 years teaching and serving in administrative positions at his alma mater.

"It was an interesting twist of fate in which Perry learned that his actions on April 6, 1945, earned him this

award," said Navy Reserve Lt. Haraz N. Ghanbari, UT director of military and veteran affairs. "He risked his life that day to save his comrades, and we look forward to officially recognizing Sergeant Perry for his heroism."

In addition, Veterans Appreciation Day will be presented by the Student Veterans of America Thursday at 11 a.m. on the steps outside the Student Union. Ghanbari will speak at a flag retirement ceremony and share the history of the flag, the proper way to dispose of a tattered flag, and the importance of doing so correctly.

For more information on the public ceremonies, contact Ghanbari at 419.530.VETS.

## Food trucks to return for lunch Nov. 3

They're back: The food trucks will serve up lunch Tuesday, Nov. 3, from 11:30 a.m. to 1:30 p.m. on Centennial Mall.

"We hope the food trucks will get students and employees excited for the first home Tuesday football game," said UT Director of Strategic Initiatives Margaret Traband.

The Toledo Rockets will play the Northern Illinois Huskies Tuesday, Nov. 3, at 8 p.m. in the Glass Bowl. The

game will be televised nationally on ESPN2.

Rolling up will be the Displaced Chef with Cuban food, Jeannie's Weenies, Jera's Heavenly Sweet with baked goods, Nacho Danny with Tex-Mex, Rosie's Italian Grille and Rusty's Road Trip with Lake Erie perch.

"We hope the campus community comes out to enjoy a special lunch and to support our Toledo Rockets," Traband said.

## Princeton Review

*continued from p. 1*

engagement will take your career to the next level. The UT MBA curriculum is designed to equip future leaders with relevant, real-world knowledge about the workings of every level of the enterprise: employees, customers, the firm itself, and all levels of the economy."

"The schools we selected for these guides all offer academically outstanding degrees: We recommend them highly," said Robert Franek, publisher, The Princeton Review. "Their program offerings vary considerably, and we salute and highlight those distinctions in our profiles. Our purpose is not to rank schools hierarchically or crown any school as 'best' overall. Our goal is to provide school profiles combined with multiple rating scores and ranking lists to help applicants choose the best b-school for them."

"All of us in the College of Business and Innovation are very excited at this continuing recognition by The Princeton Review of the quality and relevance of our programs," Dr. Gary Insch, dean of the college, said. "This recognition by The Princeton Review further validates the quality of our faculty, the significance of our curriculum, and the excellence of our students."

The Princeton Review's ranking list tallies factor in data from its surveys of business school students completed during the 2014-15, 2013-14 and 2012-13 school years. The survey asked students about their school's academics, student body and campus life, and their career plans. All institutional data reported in these editions was collected in 2014-15.

## New UT students will live on campus first two years

A change in The University of Toledo's residency policy will help ensure students' academic success and enhance their collegiate experience.

Beginning with the 2016-17 academic year, new students who live more than 25 miles from UT will live on campus for their first two years of college.

"Research shows that students who live on campus during their first two years of college are more involved in campus life and more likely to take advantage of the academic resources available to help them succeed," said Dr. Kaye Patten Wallace, senior vice president for student affairs.

Patten Wallace emphasized that the positive impact of the new policy will help boost retention and graduation rates — two initiatives emphasized by UT President Sharon L. Gaber as among the University's top priorities.

Previously, UT required students who lived beyond a 50-mile radius of campus to live on campus for one year. The University continues to have a waiver process for students whose individual circumstances may make living on campus difficult.

The additional students who will live on campus when the changes are fully implemented will have access to living-learning communities and themed residence hall floors that build a

sense of community among students. They also will be more likely to be active in one of UT's more than 200 student organizations and participate in on-campus activities and programs, Patten Wallace said.

"Having a greater number of sophomores joining our new students, many of them first-generation students, on our campus will go a long way in our efforts to create a more vibrant campus community where students succeed," Patten Wallace said.

The new Honors Academic Village and Gateway on-campus living options, along with improvements designed to slow traffic along Dorr Street on the southern edge of campus, are additional initiatives related to an enhanced student experience at the University.

In each of the last two years, UT has seen an increase in first- to second-year retention rates of nearly 2 percent. The current retention rate of 71.9 percent is the highest it has been in more than a decade, and the housing policy change will work in concert with success coaching, peer-to-peer mentoring and other initiatives in place to ensure students graduate in a timely way.

Other Ohio public universities, including Ohio State University, Ohio University, Miami University and Bowling Green State University, also require a two-year on-campus residency.

# UT NEWS

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## Nationally recognized interfaith group to bring laughter, acceptance to Toledo

By Lindsay Mahaney

Interfaith Amigos is their name and promoting interfaith acceptance is their game; the nationally recognized group will visit Toledo this week.

The University of Toledo's Center for Religious Understanding will host its annual Jewish Christian Muslim Dialogue in November, but there will be a different format this year as the Interfaith Amigos will be in town.

Known for their blend of spiritual wisdom and humor, Imam Jamal Rahman, Pastor Don Mackenzie and Rabbi Ted Falcon started their work together after 9/11. The group travels around the country promoting authentic conversation between faith traditions, sharing why they believe interfaith dialogue is so critically important and how each of their Abrahamic traditions support and inhibit deeper dialogue.

"We are delighted that Toledo is our first stop after presenting at the Parliament of World Religions in Salt Lake City, Utah. We are looking forward to sharing the additional insights gleaned at this historical gathering of faith leaders from around the world," said the group's Communication Director Ruth Neuwald Falcon.

Each year for the past 13 years, members of the Jewish, Christian and Muslim faiths on campus and in the community gather to talk about a topic of mutual interest. Normally the faiths take

turns on a keynote speaker; this year the Center for Religious Understanding was offered the opportunity to partner with Sylvania United Church of Christ to bring the Interfaith Amigos to Toledo instead.

"One reason to come to this event is to get to hear firsthand and ask questions of a Jew, a Christian and a Muslim who are great speakers and at the same time great leaders in their tradition," said Dr. Jeanine Diller, director of UT's Center for Religious Understanding. "Religions that aren't your own can seem really abstract and odd; it can help a lot to talk with someone from them, and it's wonderful to talk with someone who knows a lot about them."

The group will offer several public presentations throughout the weekend:

- Saturday, Nov. 7 — "Promises and Problems of Interfaith Dialogue" at 4 p.m. at the Sylvania United Church of Christ, located at 7240 Erie St., Sylvania. The lecture and question-and-answer session cost \$15; students with valid ID get in free.
- Sunday, Nov. 8 — "The Golden Rule and Compassion in Three Faiths" at 8:30 and 10:40 a.m. at the Sylvania



COMPADRES: The Interfaith Amigos are, from left, Imam Jamal Rahman, Rabbi Ted Falcon and Pastor Don Mackenzie.

United Church of Christ. Join the congregation in a worship service with the Interfaith Amigos and hear them give a shared sermon.

- Sunday, Nov. 8 — "An Informal Conversation With the Interfaith Amigos" at 9:20 a.m. at the Sylvania United Church of Christ.
- Sunday, Nov. 8 — "The Practice of Effective Interfaith Dialogue, an Experiential Workshop" at 2 p.m. at the Radisson Hotel on UT's Health Science Campus. This event will include a discussion after the lecture portion.

Light refreshments will be available at all events, except the morning services at the Sylvania United Church of Christ.

"It's hard to imagine a better team to instantiate the dialogue between these

traditions that our event is all about, and I know our team is looking forward to learning as much as we can from them about interfaith dialogue while they are with us," Diller said.

The Interfaith Amigos' visit is sponsored by the Jewish Christian Muslim Dialogue Committee at The University of Toledo's Center for Religious Understanding, the Childester Lecture Series at Sylvania United Church of Christ, the Toledo Community Foundation and the Multifaith Council of Northwest Ohio.

For more information on the Interfaith Amigos, contact Neuwald Falcon at [interfaithamigos@gmail.com](mailto:interfaithamigos@gmail.com).

For more information on the events, visit [facebook.com/SylvaniaUCC/events](http://facebook.com/SylvaniaUCC/events).



### Friday night movie

Carey Grant and Rosalind Russell star in "His Girl Friday," which will be projected from 16mm film by the UT Department of Theatre and Film Friday, Nov. 6, at 7:30 p.m. in the Center for Performing Arts Room 1039. Directed by Howard Hawks, the 92-minute movie tells the story of Walter Burns, a newspaper editor played by Grant, who learns his ex-wife and former star reporter Hildy Johnson, played by Russell, is about to remarry and step away from writing. Not wanting to lose her, he convinces her to cover one more story. The 1940 comedy is No. 19 on the American Film Institute's 100 Years... 100 Laughs list. Tickets — \$5 for students, UT employees and alumni, children and military members; and \$10 for general admission — include popcorn and a soft drink and can be purchased at the door or online at <http://utoledoedu.tix.com>.