UT researchers to lead 38% of Ohio’s new water quality research projects, including ‘impairment’ criteria

By Christine Billau

The University of Toledo is slated to lead eight out of the 21 new research projects to be funded with $3.5 million from the state of Ohio to address water quality and algal bloom toxicity.

UT, situated on the western basin of Lake Erie, is to receive nearly $1 million of the $3.5 million dedicated by the Ohio Department of Higher Education for these additional projects in the ongoing, statewide Harmful Algal Bloom Research Initiative, which began three years ago after the city of Toledo issued a Do Not Drink advisory for half a million water customers due to the level of microcystin detected in the water.

UT is one of the lead universities in the Harmful Algal Bloom Research Initiative, which consists of 10 Ohio universities and five state agencies.

The selected projects focus on reducing nutrient loading to Lake Erie; investigating algal toxin formation and human health impacts; studying bloom dynamics; better informing water treatment plants how to remove toxin; and aiding the efforts of state agencies.

Dr. Tom Bridgeman, professor in the Department of Environmental Sciences, will lead a project to develop sampling protocols and collect samples to assess listing criteria that the Ohio Environmental Protection Agency may use to monitor the water quality of the open waters of the western basin of Lake Erie and to potentially assign official designations such as “impaired” or “unimpaired.”

Director of center operating NASA’s Hubble, James Webb space telescopes to speak Feb. 22

By Christine Billau

The director of the Space Telescope Science Institute in Baltimore, which operates NASA’s Hubble Space Telescope and the soon-to-be-launched James Webb Space Telescope, will speak on campus as part of The University of Toledo’s continuing celebration of the 50th anniversary of the Ritter Astrophysics Research Center.

The free, public event featuring Dr. Ken Sembach and titled “Great Observatories, Present and Future” will take place Thursday, Feb. 22, at 6:30 p.m. in Wolfe Hall Room 1205.

“Some telescopes are put into space to get above the blurring of our atmosphere and to detect light that our atmosphere otherwise blocks,” said Dr. Jillian Bornak, associate lecturer in the Department of Physics and Astronomy, and chair of the UT Astronomy 50th Anniversary Committee. “Dr. Sembach will talk to us about these great observatories and lay out the foundation for why we are excited for the view of the universe that the Webb telescope will give us.”

Toledo has historic connections to deep space exploration and unraveling the mysteries of the universe.

In 1946, an astrophysicist from Toledo named Lyman Spitzer Jr. proposed building telescopes in space. Today, UT researchers and students use Spitzer and NASA’s other space telescopes by downloading the data and engaging in the exploration of the universe from Ritter.

The James Webb Space Telescope, which will be the largest and most powerful when launched into orbit next year, is
Chemical sensing topic of Distinguished University Professor Lecture Feb. 22

Dr. Jon R. Kirchhoff, Distinguished University Professor and Chair of Chemistry and Biochemistry, will discuss his research this week.

The title of his Distinguished University Professor Lecture is “Chemical Sensing: Finding a Needle in a Haystack.” The free, public event will be held Thursday, Feb. 22, at 4 p.m. in Doermann Theatre.

“The presentation will look at the importance of chemical sensing in our everyday lives and the challenges of making accurate and useful measurements,” Kirchhoff said. “Several projects from my research group will be used as examples.”

In his 29th year at The University of Toledo, Kirchhoff has served as associate chair of the Department of Chemistry and Biochemistry for 16 years and chair for four years.

He received his PhD from Purdue University in 1985 and specializes in analytical chemistry focusing on chemical sensing. He has published more than 80 peer-reviewed publications, book chapters and patents, and has been a principal investigator or co-principal investigator on research and infrastructure grants totaling $5.8 million.

Kirchhoff was appointed a Distinguished University Professor in 2010.

“The faculty who have been named Distinguished University Professors are colleagues that I have admired for their significant contributions to the University,” he said. “It is an honor and very humbling to be considered among this group of faculty.”

A reception will follow his lecture in the lobby of University Hall.

Seniors: March 1 deadline to apply for graduation in commencement program

By Cathy Zimmer

Graduating seniors, do you want your name in the program? Apply for graduation by Thursday, March 1.

Students planning to graduate and participate in the spring commencement should complete the online applications through the myUT portal.

A program listing graduation candidates, their colleges, programs and majors will be distributed before and during the commencement ceremony.

Candidates who apply to graduate after March 1 will not have their names appear in the commencement program.

While completing the online graduation application, it will ask you to enter your name as you want it to appear on your diploma, as well as in the commencement program, using your legal last name.

If you are earning more than one degree, complete an application for each degree.

An online application must be completed in order to graduate even if a student does not intend to participate in commencement.

Instructions to aid students in completing the application are at utoledo.edu/offices/registrar/graduation_app_instructions.html.

Questions may be directed to graduation@utoledo.edu.

Under construction

Director

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named in honor of Dr. James Webb, who received an honorary degree at the dedication of UT’s Ritter facility Oct. 13, 1967. Webb was the head of NASA at that time.

The Space Telescope Science Institute is operated by the Association of Universities for Research in Astronomy, which UT was selected to join in 2016 in recognition of the astronomy and astrophysics program’s strengths in research, education and outreach.

Before becoming director of the Space Telescope Science Institute, Sembach served as interim director, Hubble mission head and Hubble project scientist.

Previously, Sembach was the Far Ultraviolet Spectroscopic Explorer deputy project scientist for large science programs at Johns Hopkins University. He also was a NASA Hubble Fellow at the Massachusetts Institute of Technology.

Sembach received a bachelor’s degree in physics with honors in 1988 from the University of Chicago and a PhD in astronomy in 1992 from the University of Wisconsin-Madison.
2018 winter break dates announced

By Christine Wasserman

Beginning in December 2017, the University implemented a new winter break policy in response to feedback from employees over several years. Winter break enables faculty and most staff to rest at a time when many departments are operationally slow for the holidays.

Winter break schedule also helps the University to reduce its costs while still maintaining crucial functions, such as hospital operations at UT Medical Center, approved research activities and public safety. Therefore, winter break does not include UTMC employees and certain required positions, which might vary depending on annual need.

In addition to existing holiday pay, the University provides paid days off — either three days or four, depending on which day the holiday falls in the year — to cover the entire specified time period.

This year’s winter break schedule includes four paid days off:
- Monday, Dec. 24 — Holiday (Columbus Day);
- Tuesday, Dec. 25 — Christmas Day;
- Wednesday, Dec. 26 — Paid day off for winter break;
- Thursday, Dec. 27 — Paid day off for winter break;
- Friday, Dec. 28 — Paid day off for winter break;
- Monday, Dec. 31 — Paid day off for winter break; and
- Tuesday, Jan. 1 — New Year’s Day.

“We received a lot of positive feedback from both faculty and staff that they really appreciated having this extra time off for personal enjoyment and their well-being,” said Wendy Davis, associate vice president for human resources and talent development. “We’re pleased they used this time to recharge.”

Faculty and staff who work on Main Campus or Scott Park Campus again will be asked to refrain from being at the University during winter break unless pre-approved by their department’s leadership in order to conduct essential business. Access to buildings will be restricted, and facility operations and ground maintenance also will be limited.

Within the coming months, leadership members will be responsible for designating any specific employees who will need to be on call and/or must work during winter break in order to provide essential services, which may include research that cannot be conducted at home. Leaders also should notify all affected service and product providers, such as vendors and contractors, about the University’s closure so they may plan their work accordingly.

Additional winter break details, including frequently asked questions, are available at www.utoledo.edu/depts/hr/benefits/time-off/winter-break.html. If you have questions after reviewing this information, contact your supervisor or human resources consultant.

Record-breaking fundraiser

Dr. Shanda Gore, associate vice president of the Catharine S. Eberly Center for Women, received a proclamation in honor of the center’s 40th anniversary from Michael Ashford of the 44th District of the Ohio House of Representatives during the 10th annual Celebrity Wait Night Feb. 8 at Parkway Plaza in Maumee. More than 500 guests attended the sold-out event, which raised more than $49,000 for the center. “We are so grateful for the continued support demonstrated by our UT campus and from the greater Toledo community,” Gore said. “This year marks not only a milestone with our 40 years, but also sets records by the amount of money raised for the Eberly Center for Women, including academic scholarships.”

Having fun at the Eberly Center for Women’s Celebrity Wait Night were, from left, Emily Creamer, assistant director of engineering transfer programs; Rodsky; Cheryl Thomas, interim executive assistant 2 in Student Affairs; Melissa Gleckler, educational technologist with UT Online; and Sandy Kosmya, UT retiree, who worked at the Eberly Center and University College.
Faculty member becomes president of National Economic Association

By Ashley Diel

Dr. Gbenga Ajilore, associate professor of economics, has been elected president of the National Economic Association.

The association is interested in producing and distributing knowledge of economic issues that are of exceptional interest to promoting economic growth among people of color.

Since its founding in 1969 as the Caucus of Black Economists, the National Economic Association has aimed to promote the professional lives of minorities within the field of economics.

“This is an amazing honor especially since I didn’t come from a prestigious graduate program or a top 25 institution,” Ajilore said. “It says a lot about the work I’ve done at UT and the network I’ve been able to build up.”

There are about 200 members in the National Economic Association, which is open to professionals and graduate students in the field of economics and an array of related disciplines. These members work in academia, the private sector and in government around the globe.

Ajilore is on sabbatical as a visiting fellow at the Urban Institute, a think tank in Washington, D.C., where he is collaborating with experts and scholars in the Justice Policy Center.

“I have been working on issues surrounding police militarization and its impact on local communities,” Ajilore said. “I have completed several papers on the impact of militarization on use of force, both lethal and non-lethal. I also have looked about the effect of racial and ethnic diversity of the acquisition of military surplus.”

Ajilore received his PhD at Claremont Graduate University in California, where his research included public finance and demographic economics.

UT Spring Engineering Career Expo
Feb. 21

By Christine Billau

More than 140 companies will attend the Spring 2018 Engineering Career Expo at The University of Toledo Wednesday, Feb. 21.

The networking and hiring event will take place from 12:30 to 4:30 p.m. on the first floor of Nitschke Hall and the North Engineering Building.

Only UT College of Engineering students and alumni are eligible to attend this opportunity to connect with companies.

More than 700 engineering students and alumni are expected to attend.


“The current job outlook for companies who hire them.”

Kuntz, director of the Engineering Career Development Center that hosts the event. “Employers are seeking undergraduate students to participate in engineering co-op programs, as well as their leadership development programs. Employers are also seeking seniors and graduates for full-time employment.”

The college hosts semiannual career expos to give students the opportunity to network with potential employers.

“The University of Toledo College of Engineering’s undergraduate mandatory paid co-op program is one of only eight mandatory engineering co-op programs in the country,” Kuntz said. “Our students experience one full year of professional engineering experience before they graduate, and they feel confident seeking full-time employment upon graduation. Co-op businesses are able to work with these students and are able to determine how the student fits within their organization. It’s a win-win situation for our students and the companies who hire them.”

Marking a milestone

For the first time, all current, past and future officers of the Ohio chapter of the American Fisheries Society are women, a rare feat for the field, according to Dr. Christine Mayer, UT professor of environmental sciences, center, who recently was presented with a plaque as her term as past president ended. In the photo with her are, from left, Jo Ann Banda, fish and wildlife biologist/Ohio field spill response coordinator with the U.S. Fish and Wildlife Service, who is a UT alumna and chapter secretary; Dr. Suzanne Gray, assistant professor of aquatic physiology ecology at Ohio State University, who is the new vice president of the chapter; Dr. Kristi Arend, physiology ecology at Ohio State University, who is treasurer; Dr. Suzanne Gray, assistant professor of aquatic physiology ecology at Ohio State University, who is the new vice president of the chapter; and Dr. Janice Kerns, supervisor of the Fairport Fisheries Station for the Ohio Department of Natural Resources — Division of Wildlife, who is president of the chapter.
Grammy Award-winning pianist to play Art Tatum Memorial Jazz Scholarship Concert Feb. 21

By Angela Riddel

Billy Childs, who took home the Grammy Award for Best Jazz Instrumental Album for “Rebirth” last month, will visit The University of Toledo this week.

The five-time Grammy Award-winning pianist will perform at the Department of Music’s Art Tatum Memorial Jazz Scholarship Concert Wednesday, Feb. 21, at 7 p.m. in the Center for Performing Arts Recital Hall.

Since his first recordings in the 1980s, Childs has developed into a distinctive and distinguished composer. An accomplished symphonic writer, he has amassed jazz originals that can swing hard, dazzle with intricacy, touch with direct simplicity, or mesmerize with crystalline lyricism.

On his new Mack Avenue debut album “Rebirth,” Childs reaches back to the start of his astoundingly varied musical experience — leading a small jazz band of state-of-the-art musicians with his piano playing.

At his musical core, Childs is an improvising pianist. He has the ability to equally distill the harmonic and rhythmic languages of classical music and jazz into his playing. The wide-ranging vocabulary on the taut track “Tightrope” begs the question of Childs’ love of classical music; “I’m not just jazz,” he stressed.

His insistent pulse and melodically probing introduction to song is a key to his musical identity: welcome extended harmonic possibilities as they come along, take a flexible approach to time, and leave open door for input from handmates.

While on campus, Childs also will conduct a free master class at 2 p.m. in the Center for Performing Arts Recital Hall.

A cash bar will be available the night of the concert.

Tickets are $20 each and are available at the door and through the Center for Performing Arts Box Office at 419.530.ARTS (2787), as well as online at utoledo.tix.com.

All proceeds from the concert benefit the UT Department of Music’s Art Tatum Memorial Jazz Scholarship Program. This scholarship is awarded to African-American students pursuing a degree in jazz performance at UT.

Inaugural Rockets’ Wine Night set for Feb. 21

By Brian DeBenedictis

The University of Toledo will host the inaugural Rockets’ Wine Night at Savage Arena prior to the women’s basketball game vs. Eastern Michigan Wednesday, Feb. 21.

Heidelberg Distributing will feature 12 of its most popular wines in the Fetterman Practice Gym beginning at 5:30 p.m.

Tipoff for the basketball game is 7 p.m.

Cost for the inaugural event is $30 and includes a game ticket, 12 wine samples, and appetizers. Tickets to the event are $20 for fans who have already purchased their game tickets. The cost for designated drivers is $20 and includes game ticket and appetizers with soft drinks.

This event is for fans 21 and older.

All attendees will be required to show a valid photo ID upon entry. No refunds or exchanges will be provided for failure to provide ID or failure to attend.

Attendees can redeem their voucher at the door of the Fetterman Practice Gym from 5:30 to 7 p.m. for access to the pre-game event.

To order tickets for Rockets’ Wine Night, call 419.530.GOLD (4653), go online at utrockets.com, or stop by the UT Ticket Office at Savage Arena.
Professional sales students from 34 universities across the United States will visit The University of Toledo College of Business and Innovation this weekend to compete in the third annual UT Invitational Sales Competition.

The Edward Schmidt School of Professional Sales at UT organizes this first and only national sales competition dedicated exclusively to juniors, sophomores and freshmen because graduating seniors are typically already placed in jobs due to high corporate demand.

“We believe that younger students are chomping at the bit to shine outside the shadow of a senior, and we are confident that they have the talent and coachability to compete on a national stage,” said Deirdre Jones, director of the Edward Schmidt School of Professional Sales and the UT Invitational Sales Competition. “We are thrilled to bring tomorrow’s top talent today to our sponsors so they can find the sales talent they need for internships and regular job placements.”

Since 2016, more than a dozen corporate sponsors who send company representatives to serve as buyers and judges have hired 48 competitors. Hiring tripled between 2016 and 2017.

The sales competition will take place Friday and Saturday, Feb. 23 and 24, in classrooms and meeting rooms throughout Savage & Associates Business Complex.

The first rounds of the competition will take place from 9:15 a.m. to 12:15 p.m. Friday, followed by the wild-card round from 1:45 to 3 p.m. and quarterfinals from 4 to 5:40 p.m. The competition will conclude Saturday with the semifinals from 8:30 to 9:20 a.m. and the finals from 10:30 a.m. to 1 p.m.

The winners of the competition will be recognized at an awards luncheon at 1:30 p.m. Saturday in the Thompson Student Union Auditorium.

The event also will feature a career fair for participating students from 9:15 a.m. to 3 p.m. Friday in the Thompson Student Union Ingman Room featuring sales leaders and recruiters from sponsoring companies.

More than 100 sales leaders and recruiters who participate serve as buyers and judges for the role plays and also interact with the students during coaching and interviewing sessions and the career fair.

Sponsors include 3M, Owens Corning, Quicken Loans, Goodyear Tire and Rubber Co., and Procter & Gamble Co.

Participating universities include Baylor, Florida State University, Ball State, Oregon State, Temple and Purdue.

Researchers

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“Although it is obvious to nearly everyone that harmful algal blooms are impairing Lake Erie each summer, we need to develop objective scientific criteria that can be used to list the open waters of the lake as officially ‘impaired,’ and to remove an ‘impairment’ designation in the future if conditions improve sufficiently,” Bridgeman said.

UT researchers also to receive some of the $988,829 in state funding for their projects are:

• Dr. Jason Huntley, associate professor in the Department of Medical Microbiology and Immunology, will be developing and testing biofilters — water filters containing specialized bacteria that degrade microcystin toxins from lake water as it flows through the filter. These biofilter studies are aimed to develop cost-effective, efficient and safe drinking water treatment alternatives for the city of Toledo and other Lake Erie water municipalities.

• Dr. Steven Haller and Dr. David Kennedy, assistant professors in the Department of Medicine, will investigate how cyanotoxins such as microcystin damage organs not only in healthy settings, but in settings that may increase susceptibility such as diabetes, obesity and inflammatory bowel disease. Their research teams are working in concert with experts in medicine, pathology, physiology, pharmacology and chemistry to not only learn how microcystin affects organ function in these settings, but also to create new therapies to prevent and treat organ damage, especially in vulnerable patient populations.

• Dr. Patrick Lawrence, UT professor in the Department of Geography and Planning, will use a transportation model to simulate potential distribution of volume of agricultural manure from permitted livestock facilities to surrounding farmland for application as a nutrient. The results will assist in determining the estimated acreage of land within the Lake Erie western basin where manure application could be undertaken and examine associated crop types, farming practices, soil types, drainage and other environmental conditions in those areas.

• Dr. Saatvika Rai, assistant professor of environmental policy in the Department of Political Science and Public Administration, and Dr. Kevin Czajkowski, professor in the Department of Geography and Planning, will use GIS and remote sensing to assess the implementation of agricultural and farming practices in three sub-watersheds of the Maumee River Basin — Auglaize, Blanchard and St. Joseph — to identify where best management practices are being implemented. These maps will then be correlated with perceptions of farmers through surveys and interviews to identify hotspots and priority areas for policy intervention in the region.

• Dr. April Ames, assistant professor in the College of Health and Human Services, will apply an industrial hygiene technique to the exploration of the presence of microcystin in the air using research boats on Lake Erie. Simultaneously, residents who live on or near Lake Erie will be surveyed about their recreational use and self-reported health.

“I am proud of the work that is being done, and that researchers from our public and private higher education institutions continue to work together to address this issue,” said Ohio Department of Higher Education Chancellor John Carey. “Using the talent of Ohio’s researchers and students to solve pressing problems makes perfect sense.”

The Harmful Algal Bloom Research Initiative is funded by the Ohio Department of Higher Education with $7.1 million made available for four rounds of research funding since 2015. Matching funding from participating Ohio universities increases the total investment to almost $15.5 million for more than 50 projects, demonstrating the state’s overall commitment to solving the harmful algal bloom problem.

Water quality is a major research focus at UT. With more than $14 million in active grants underway, UT experts are studying algal blooms, invasive species such as Asian carp, and pollutants. Researchers are looking for pathways to restore our greatest natural resource for future generations to ensure communities continue to have access to safe drinking water.

The UT Water Task Force, which is composed of faculty and researchers in diverse fields spanning the University, serves as a resource for government officials and the public looking for expertise on investigating the causes and effects of algal blooms, the health of Lake Erie, and the health of the communities depending on its water. The task force includes experts in economics; engineering; environmental sciences; business; pharmacy; law; chemistry and biochemistry; geography and planning; and medical microbiology and immunology.
Army ROTC offers $5,000 bonus to sophomores, seniors planning on graduate school

The University of Toledo ROTC Program is promoting a new $5,000 bonus for sophomores and seniors planning to attend graduate school who can pass cadet basic training.

“We’re looking for high-quality college sophomores and seniors to join ROTC and attend basic camp at Fort Knox [in Kentucky] this summer,” said Maj. Gen. Christopher P. Hughes, commanding general, U.S. Army Cadet Command.

For those who successfully complete basic camp, Cadet Command will offer a contract and pay a $5,000 signing bonus.

Upon graduation, cadets who fulfill the military science requirements will receive a position as a commissioned officer in the U.S. Army. The cadet may elect to be part of the Regular Army, Army Reserve or Army National Guard.

“This is a great opportunity for UT students to enroll in one of the best leadership courses in the country while pursuing their educational goals,” said Capt. Amny G. NovaReyes, UT assistant professor of military science.

In memoriam

Patricia McCarthy Savage Gogolin, Toledo, a UT alumna who taught art classes at the University, died Feb. 7 at age 89.

Robert “Bob” C. Stainbrook I, Toledo, a pharmacist who worked at MCO/MUC/UTMC from 1994 until his retirement in 2006, died Feb. 9 at age 87. A UT alumnus, he received a bachelor’s degree in pharmacy in 1958.

President shares updates

Continuing her monthly Breakfast with the President series with faculty and staff, President Sharon L. Gaber met with 21 individuals Feb. 15. She discussed Title IX, UT’s new Tuition Guarantee program, philanthropy efforts, and the need for strengthening the UT experience for students by daily improving customer service, among other updates. Before welcoming questions from participants, she thanked everyone for being invested in helping to improve enrollment and retention rates.
Rocket Wellness to hold Health and Safety Expo Feb. 27

Rocket Wellness will host the 2018 Health and Safety Expo Tuesday, Feb. 27, from 2 to 6 p.m. in the Thompson Student Union Auditorium.

This event is free to all students, faculty and staff with the goal to educate about the various programs, services and opportunities available that can support overall well-being.

“With spring break right around the corner, our intention is to educate the UT community on safety procedures, as well as give them tools to enhance their overall wellness,” said Jocelyn Szymanski, wellness administrator for Rocket Wellness.

Representatives from more than 20 campus organizations and community vendors will be present to highlight various health and safety information, such as nutrition, mental health resources and financial well-being. A distracted driving simulator, information on Narcan, and hands-only CPR training are some of the interactive tables that will be part of the event.

Three breakout sessions for more in-depth training will be held in Thompson Student Union Room 3020. Space is limited at the sessions and is available on a first-come, first-seated basis. The sessions are:

• Bringing in the Bystander Training from 1 to 3 p.m. Learn how to safely intervene in instances of sexual violence, relationship violence and stalking.

• Budget Today, Plan for Tomorrow from 3 to 4:30 p.m. Learn from a financial expert how to take control of your budget.

• Personal Safety and Self-Defense Class from 4:30 to 5:30 p.m. Participants will learn personal safety tips for home, office, school, and going out and about, as well as self-defense tactics in a safe and relaxed setting. Participants should wear comfortable clothing and tennis shoes.

Rocket Wellness is also launching its Rocket Your Way to Wellness Passport at the expo. This passport will provide participants an opportunity to complete a variety of wellness activities to improve their well-being and, in turn, be eligible for prizes.

“We are excited about using this event as a launch pad to engage our UT students, faculty and staff and improve the wellness of our campus community,” Szymanski said.

Snacks from UT Dining Services, giveaways and prize opportunities will be available.

More information can be found at utoledo.edu/offices/rocketwellness/coming-events.html.