The LIST

2013–14

ONE YEAR. HUNDREDS OF STORIES.

THE UNIVERSITY AT BUFFALO
PROGRESS REPORT
We took the Internet underwater.

We groomed a first-round NFL draft pick.

We hosted the President of the United States.

CONDUCTING RESEARCH that finds solutions to the complex challenges of today. Educating tomorrow’s leaders to answer questions that haven’t yet been posed. Engaging our communities to make lives better in our own backyard and throughout the world. That’s the University at Buffalo, every day of the year.

The following pages list 534 news headlines from 2013-2014 that chronicle our unique footprint in higher education. UB’s role as New York State’s largest, most comprehensive public research university is reinforced by the important work our award-winning faculty, enthusiastic students and committed staff undertake every day on our three vibrant campuses to make our local and global communities healthier, more productive and more prosperous.

This list of headlines is not comprehensive; we could easily fill UB Stadium with the accomplishments from the past year. But one thing remains clear: Whether we’re building a model Mars rover, targeting new ways to treat cancer or documenting women’s activism in Pakistan, the University at Buffalo is continually making a difference in the world.

DID A HEADLINE CATCH YOUR EYE?

Go online at www.buffalo.edu/list for links to each story you see here, and experience a year in the life at UB.
LETTER FROM THE PRESIDENT

AT THE UNIVERSITY AT BUFFALO, our mission as a premier research university boils down to three basic elements: groundbreaking research, transformative educational experiences, and deeply engaged service to our local and global communities. It’s a simple formula that yields incredible power—bringing together thousands of minds to tackle the age-old questions and brand-new challenges facing our world in the 21st century.

How can we gauge our progress in pursuing this mission? I believe the best measure of a university’s excellence is our impact: the difference we make in the world around us, the lives we change for the better. As a scholarly community, we are dedicated to harnessing our ideas, our discoveries and our creativity to make the world a better place.

Expressing that impact in a neat package is another story entirely. Research expenditures and funds raised help define the quality of our scholarship and education—and the scope of their influence—and you will find these figures and more in this progress report.

But numbers tell only part of the story. It’s our people who bring these facts and figures to life—from our students who are building the solar home of the future to our researchers who are using nanotechnology to revolutionize cancer treatment, to our Buffalo neighbors who are partnering with us to build a greener, healthier and more culturally vibrant city.

Many of their stories are gathered here, offering hundreds of small, vivid windows on the tremendous influence our university’s people have on the world around us.

Of course, we can’t list every one of the achievements and contributions our students, faculty and staff have made this year. For every story and accomplishment recorded on these pages, there are many others to tell and countless more yet to unfold.

We hope this report gives you insight into some of what our UB family has achieved over the course of the past year, and the great difference these efforts are making. Thank you for all you contribute to the ongoing UB story, and all the ways in which you deepen and extend our impact.

With best regards,

Satish K. Tripathi, President
**The LIST**

**JULY 2013**

| 001. | UB students head to Houston to test micropump at near-zero gravity for NASA |
| 002. | UB’s new CTRC imaging center is Western New York’s first devoted exclusively to research |
| 003. | Amazing China! Amazing India! |
| 004. | Intern puts skills to use at engineering firm Cobham |
| 005. | UB TCIE’s continuous business improvement fall classes announced |
| 006. | UB pediatrics professor receives Excellence Award from National Organization on Fetal Alcohol Syndrome |
| 007. | Engineering students design bridge for rural Kenyans, now they’re seeking funding to build it |
| 008. | Federal judges take more UB students for internships |
| 009. | UB neurosurgery residents achieve among highest scores on national board exam |
| 10. | Why do females respond better to stress? Estrogen in the brain |
| 11. | Research plans to bring African yoga project home |
| 12. | Trena Peel named head softball coach |
| 13. | UB on the Green to feature theme nights |
| 14. | Software firm graduates from UB incubator to new WNY office |
| 15. | Summer school—for science teachers |
| 16. | UB receives $1.2 million grant to train future oral health researchers |
| 17. | Worried about your teenager driving a car? They can learn for free on UB’s driving simulator |
| 18. | Parade of robots concludes summer workshop |
| 19. | Exhibition showcases work of artists with developmental disabilities |
| 20. | **3-D digital carving: A new tool for an ancient art** |
| 21. | “Chinese philosophy and the Way of Living” |
| 22. | Scientist gauging algae’s potential uses |
| 23. | 150 years after the Civil War, America still searches for racial redemption |
| 24. | UB’s undergraduate academies to hold program on lawyers as agents of social change |
| 25. | Mapping the experience of an individual with dementia |
| 26. | Can we create biofuels, fertilizer from Great Lakes algae? |
| 27. | UB researchers stalk a preventable killer |
| 28. | UB conference examines bioethics and the philosophy of medicine |
| 29. | UB faculty, students join medical mission in Haiti |
| 30. | Study finds link in genes for obesity and asthma |
| 31. | Back to the old grind! |

---

**DIGITIZING ‘DOROTHY’**

Expertise in 3-D digital fabrication leads to real-world opportunities for architecture students

**LOOK UP** the next time you’re strolling through downtown Manhattan, and you may see four 19-foot-tall angels looking down on you from their perch atop a 21-story Beaux Arts building. Named “Dorothy,” the caryatids were crafted by Western New York restoration firm Boston Valley Terra Cotta using state-of-the-art technology and techniques introduced to them by UB faculty and students.

Terra cotta restoration has traditionally been a labor-intensive process involving many steps, from creating 2-D drawings of the original object to hand-pressing terra cotta into molds. Experts from UB’s School of Architecture and Planning approached Boston Valley with an interest in exploring industrial applications for digital fabrication tools, which students and faculty had long used to model and test their designs in the school’s Digital Fabrication Laboratory.

So far, the experiment has been an unmitigated success. The increased precision and efficiency generated by the high-tech tools are enabling Boston Valley to compete at an international level and, by taking the heavy lifting out of restoring large sculptural works, giving employees more time to focus on their craft. Meanwhile, UB students—who continue to work on-site, honing and passing on their skills—are gaining real-world experience that can’t be beat.

---

**Experiential learning is par for the course at UB. A few more examples from the past year:**

- Graduate students in UB’s Master of Arts in Humanities (MAH) Program in Caribbean and Latin/o Cultural Studies explored a lost Mayan underwater world in Yucatan, Mexico, as part of an archeological project
- The UB Space Bulls, a team of graduate and undergraduate students in engineering and communications, built a working Mars rover prototype for a NASA-sponsored competition
- Working with civil attorneys, law students helped counsel consumer debtors on their legal rights through UB’s new Consumer Financial Advocacy Clinic
ON AUGUST 22, 2013, President Barack Obama made history at UB, becoming the first sitting U.S. president to speak on campus since Millard Fillmore in 1853. President Obama delivered a groundbreaking national address at UB's Alumni Arena in front of a standing-room-only crowd of 7,200. The audience included students, faculty, staff and community members, as well as dignitaries such as U.S. Secretary of Education Arne Duncan and New York Governor Andrew Cuomo.

At a time when the average student borrower owes more than $26,000 after graduating, President Obama spoke about the need for all students to be able to afford higher education. "We've got a crisis in terms of college affordability and student debt," Obama said. "Today I'm proposing major new reforms that will shake up the current system, create better incentives for colleges to do more with less, and deliver better value for students and their families."

The president's choice to deliver this message at UB was no accident. U.S. News and World Report's "Best Colleges" guide recently ranked UB first among public universities nationwide for students graduating with the least debt. UB is also at the forefront of many issues important to the Obama administration, including health care, STEM (science, technology, engineering and mathematics) education, and economic revitalization through development of university research.

In a historic visit to UB, President Obama reveals higher education policy agenda that will "shake up the system"

Bold initiatives like Finish in 4, which provides resources and guidance to help students graduate on time, led the New America foundation to choose UB as one of six "Next Generation" universities.
“Computing is characterized by exponentials: exponential improvements in processor speed, storage capacity, network bandwidth, sensors, even algorithms. These exponential improvements are invisible to most people until suddenly they sweep over us and catch us unaware.”

ED LAZOWSKA, INAUGURAL SPEAKER FOR CRITICAL CONVERSATIONS AND FOUNDBING DIRECTOR OF THE eSCIENCE INSTITUTE AT THE UNIVERSITY OF WASHINGTON

MISSION CRITICAL

New lecture series sparks dialogue about pivotal 21st century issues

NINE OUT OF 10 schools nationwide don’t offer computer programming courses—despite the fact that computer science infiltrates nearly every aspect of our lives, from health care and politics to shopping and sports.

This was just one of many powerful messages delivered by Ed Lazowska, a leading scholar in the area of high-performance computing and communication systems, during his appearance last fall as the inaugural speaker for “Critical Conversations.” The new annual program was launched by UB president Satish K. Tripathi to showcase distinguished scholars at the forefront of their fields.

Lazowska shared his insights into the new age of discovery in a lecture titled “Big Data, Enormous Opportunity”—a resonant subject at UB, given the university’s nationally recognized expertise in supercomputing. Referencing everything from Siri to the Summer of Love, Lazowska addressed the impact of exponentials, the importance of unanticipated results and the big data revolution. “Big data will allow us to put the smarts into everything,” noted the University of Washington professor.

Held at the start of the academic year, each Critical Conversations program will feature a keynote address that is free and open to the public. Reflecting UB’s broader educational mission, the annual event has an ambitious agenda: to give the university community access to prominent thought leaders who are breaking down traditional disciplinary walls, to prepare students to be global citizens and to contribute to UB’s growing role in leading big-picture conversations.

The world as you have not considered it

Genomic study reveals why children in remission from rheumatoid arthritis often experience recurrences

Study finds increased menthol cigarette use among young people

Study: Overweight and obese women are equally capable of the impulse control that lean women exhibit

The world as you have not considered it

Critical Conversations’ highlights prominent scholars

Top legal experts will address the need for counsel for the poor

Study to take a close look at gambling among elderly Asian Americans

UB to bring Opie to Burchfield Penney

Already among “Best National Universities,” UB cracks top 10 for least student debt, according to US News rankings

Why are some corals flourishing in a time of global warming?

UB engineer awarded $300K National Science Foundation grant for protein research

Who is ‘Molly’? UB’s Research Institute on Addictions knows

UB College of Arts and Sciences celebrates 100 years of excellence

First proteomic analysis of birth defect demonstrates power of a new technique

UB exhibition expands from campus into city neighborhoods

Fair aims to nurture greener lifestyle

Synthetic proteins focus of Park’s research

Program offers help in early days of cancer diagnosis

Lecture series opens humanities research to public

UB enrolls the largest number of international students in its history

Beta Alpha Psi again receives national honors

Russell Cicerone named Newcomer of the Year; First Team All-MAC

UB to celebrate Homecoming and Family Weekend Oct. 4-6

Forensic accounting expert to speak at UB School of Management

UB to host documentary and panel discussion on health care

Kelly Svboda named MAC East Defensive Player of the Week

UB to celebrate Chinese Moon Festival Sept. 19

UB rises significantly in ranking of world universities

Fred Lee named to Allstate AFCA Good Works Team

Research Institute on Addictions to host SUNY neuroscience conference

UB to celebrate Chinese Moon Festival Sept. 19

UB enrolls the largest number of international students in its history

Beta Alpha Psi again receives national honors

Russell Cicerone named Newcomer of the Year; First Team All-MAC

UB to celebrate Homecoming and Family Weekend Oct. 4-6

Forensic accounting expert to speak at UB School of Management

UB to host documentary and panel discussion on health care

Kelly Svboda named MAC East Defensive Player of the Week

UB to celebrate Chinese Moon Festival Sept. 19

UB rises significantly in ranking of world universities

Fred Lee named to Allstate AFCA Good Works Team

Research Institute on Addictions to host SUNY neuroscience conference
Taking the Internet underwater

20,000 GIGABYTES UNDER THE SEA

From oil exploration to pollution monitoring to tsunami detection, the potential applications of an underwater Internet are vast.

IT SEEMS LIKE the Internet is everywhere. On our phones. In our cars. Attached to our heads. Everywhere, that is, but in the ocean.

Thanks to the pioneering work done by a group of UB researchers, led by electrical engineering professor Tommaso Melodia, that’s about to change.

The technology developed at UB will allow the transmission of data from underwater sensor networks directly to laptops, smartphones and other wireless devices in real time. Data-sharing problem solved.

According to Melodia, this “unprecedented ability to collect and analyze data from our oceans” could have multiple applications, including monitoring pollution in our waterways, discovering underwater oil and natural gas resources, intercepting makeshift submarines used by drug smugglers, and greatly improving the detection of tsunamis and other natural disasters.

TESTED IN LAKE ERIE. PRESENTED IN TAIWAN.

In November 2013, Melodia and his students shared their work at an international conference for underwater technology.

From oil exploration to pollution monitoring to tsunami detection, the potential applications of an underwater Internet are vast.

IT SEEMS LIKE the Internet is everywhere. On our phones. In our cars. Attached to our heads. Everywhere, that is, but in the ocean.

Thanks to the pioneering work done by a group of UB researchers, led by electrical engineering professor Tommaso Melodia, that’s about to change.

The technology developed at UB will allow the transmission of data from underwater sensor networks directly to laptops, smartphones and other wireless devices in real time. Data-sharing problem solved.

According to Melodia, this “unprecedented ability to collect and analyze data from our oceans” could have multiple applications, including monitoring pollution in our waterways, discovering underwater oil and natural gas resources, intercepting makeshift submarines used by drug smugglers, and greatly improving the detection of tsunamis and other natural disasters.

TESTED IN LAKE ERIE. PRESENTED IN TAIWAN.

In November 2013, Melodia and his students shared their work at an international conference for underwater technology.

From oil exploration to pollution monitoring to tsunami detection, the potential applications of an underwater Internet are vast.

IT SEEMS LIKE the Internet is everywhere. On our phones. In our cars. Attached to our heads. Everywhere, that is, but in the ocean.

Thanks to the pioneering work done by a group of UB researchers, led by electrical engineering professor Tommaso Melodia, that’s about to change.

The technology developed at UB will allow the transmission of data from underwater sensor networks directly to laptops, smartphones and other wireless devices in real time. Data-sharing problem solved.

According to Melodia, this “unprecedented ability to collect and analyze data from our oceans” could have multiple applications, including monitoring pollution in our waterways, discovering underwater oil and natural gas resources, intercepting makeshift submarines used by drug smugglers, and greatly improving the detection of tsunamis and other natural disasters.

TESTED IN LAKE ERIE. PRESENTED IN TAIWAN.

In November 2013, Melodia and his students shared their work at an international conference for underwater technology.

From oil exploration to pollution monitoring to tsunami detection, the potential applications of an underwater Internet are vast.

IT SEEMS LIKE the Internet is everywhere. On our phones. In our cars. Attached to our heads. Everywhere, that is, but in the ocean.

Thanks to the pioneering work done by a group of UB researchers, led by electrical engineering professor Tommaso Melodia, that’s about to change.

The technology developed at UB will allow the transmission of data from underwater sensor networks directly to laptops, smartphones and other wireless devices in real time. Data-sharing problem solved.

According to Melodia, this “unprecedented ability to collect and analyze data from our oceans” could have multiple applications, including monitoring pollution in our waterways, discovering underwater oil and natural gas resources, intercepting makeshift submarines used by drug smugglers, and greatly improving the detection of tsunamis and other natural disasters.

TESTED IN LAKE ERIE. PRESENTED IN TAIWAN.

In November 2013, Melodia and his students shared their work at an international conference for underwater technology.
WHEN UB’S NEW SCHOOL of Medicine and Biomedical Sciences opens its doors, it will bring 2,000 faculty, students and staff to downtown Buffalo on a daily basis. And it will bring them together in a way that will raise the level of teaching, research and health care for generations to come.

That was the message delivered by leaders from UB, SUNY (State University of New York) and New York State last October, when they gathered to celebrate the school’s first major construction milestone.

The roughly 610,000-square-foot building—currently the largest medical education facility under construction in the U.S.—will feature a light-filled, seven-story glass atrium, as well as state-of-the-art modular research laboratories and advanced simulation centers for surgical and robotic surgery training. As the school’s opening draws closer, UB plans to hire 100 new medical faculty members and grow its medical school class from 140 to 180 students.

Most exciting, by building the medical school within steps of UB’s hospital and research partners, the university will play an important role in the creation of a comprehensive, collaborative academic health center—a hub for teaching, research and patient care that paves the way for Buffalo to become a health-care destination and to attract students and faculty from around the region and the world who want to study, teach and practice medicine at the highest level.

“The academic health center will offer unprecedented opportunities for our faculty and students. It also will help improve the health of people who live in Western New York and beyond, as Buffalo develops into a destination for innovative approaches to clinical care and treatment.”

MICHAEL E. CAIN, DEAN OF UB’S SCHOOL OF MEDICINE AND BIOMEDICAL SCIENCES
A REVEREND, a poet and a mathematician walk into a bar...

That’s how Will Kinney, associate professor of physics, at attempts to explain how some people perceive the Science & Art Cabaret. But this popular event series, which brings local artists and university researchers together to discuss a hodgepodge of thought-provoking topics, is no joke. Rather, it’s one of UB’s most talked-about happenings, where the public is invited to grab a drink and listen as experts discuss a common theme. The eclectic series—a collaboration among UB’s College of Arts and Sciences, Hallwalls Contemporary Arts Center and the Buffalo Museum of Science—is held at various locations, but most often at a refurbished church in the heart of downtown. Other than the cash bar, events are free.

October 2013 marked the start of the fifth year for the cabaret, which Kinney co-founded along with John Massier, visual arts curator at Hallwalls, and Gary Nickard of the Department of Art. The landmark season kicked off with a conversation on “hysteresis,” a word that refers to the way the history of a system influences its current state. Physicists shared the spotlight with a commercial photographer and a James Joyce expert. Past presenters have included a psychologist, a painter, an artist who draws cadavers, an illusionist, a law school professor and an electronic music ensemble.

The point—other than to have a good time—is to reveal how people working in diverse fields often think and talk about similar problems, without even knowing it. “Sometimes,” said Massier, “it’s not about answers, but about lots and lots of questions.”

“We wanted to pull science out of the stuffy lecture hall and show that it really is a creative activity: vital, lively, human and fun.”

Will Kinney, UB Associate Professor of Physics

“A REVEREND, a poet and a mathematician walk into a bar...”
| 208. Greiner Hall and UB-Kaleida Health building win awards for America’s best buildings of the year  |
| 209. Stingray movement could inspire the next generation of submarines  |
| 210. Researchers study how to use mind-controlled robots in manufacturing, medicine  |
| 211. Literacy depends on nurture, not nature, UB education professor says  |
| 212. Early onset dementia and CTE potential in professional football and hockey players are key focus of UB study  |
| 213. Law professors have roles in high-level court cases  |
| 214. FAFSA project clears the way for students’ financial aid  |
| 215. Gladwell weaves captivating tale of an underdog  |
| 216. Course to break down ‘Breaking Bad’  |
| 217. UB team works with Indian social workers to advance children’s rights  |
| 218. Hundreds of student volunteers grab shovels and paintbrushes for UB’s Community Day  |
| 219. ‘Open Doors’ ranks UB among top 20  |
| 220. Childhood obesity expert to head Department of Social and Preventive Medicine  |
| 221. Prasad receives honorary doctorate from Sweden’s Royal Institute of Technology  |
| 222. Undergraduates to study medicinal plants, culture of healing in Peru  |
| 223. Center for Entrepreneurial Leadership to launch family business initiative  |
| 224. School of Management names winners in accounting competition  |
| 225. Heavy drinking is bad for marriage if one spouse drinks, but not both  |
| 226. College marketing can prey on disadvantaged students  |
| 227. Does obesity reshape our sense of taste?  |
| 228. Infrared vision lets researchers see through multiple layers of graphene  |
| 229. Beyond the brain: Vascular changes in the neck may play role in Alzheimer’s  |
| 230. Four UB researchers receive NSF’s prestigious CAREER award  |
| 231. Greenland’s shrunken ice sheet: We’ve been here before  |

---

**SCHOLARSHIP MATERIAL**

A high-profile award keeps UB engineering student on course to change the world

RUGBY PLAYER. Jazz musician. Published researcher. There are many ways to describe Phillip Tucciarone, who recently graduated from UB with a BS in chemical engineering. In December 2013, Tucciarone added one more item to the list: Marshall Scholarship winner.

The Marshall is among the most prestigious scholarships in the world; Tucciarone was one of 34 winners nationwide. Previous recipients have gone on to become CEOs, Supreme Court justices and Pulitzer Prize-winning authors.

Given his near-perfect GPA, two published peer-reviewed academic papers and several other awards (including the 2013 Barry M. Goldwater Scholarship), one might think Tucciarone was destined for the Marshall. The truth is anything but.

“I worked in trades all of my life—as a plumber’s apprentice, mowing lawns for a landscaping company and drilling water wells,” Tucciarone says. The Orange County, N.Y., native didn’t even plan to go to college. Then he received a scholarship to attend UB, and the rest is history.

Despite an intense academic workload, Tucciarone found time to play club rugby at UB, serve as president of the Honors Student Council, mentor high school students in Buffalo’s public schools and organize an annual volunteer trip to the Dominican Republic to teach children English.

Inspired by his volunteer work and his positive experiences at UB, Tucciarone is pursuing a doctorate at the University of Oxford with the goal of becoming a professor of materials science. “Education is the strongest mechanism for change in the world,” he says.

---

Tucciarone credits the passion and dedication of UB’s faculty for his own desire to teach. “The faculty at UB is incredible,” he says. “They engaged me from day one.”
FULBRIGHT PROGRAM

The largest U.S. international exchange program, enabling accomplished students to pursue international graduate study, advanced research or teaching worldwide.

DOMINIQUE BERTRAND, a PhD student in anthropology, was named a Fulbright Fellow to conduct research in Indonesia.

COURTNEY BURROUGHS, a 2014 graduate in international studies, was named a Fulbright English Teaching Assistant (ETA) Scholar to teach English and conduct cultural exchange programs in Russia.

AQUILLA HINES, an English major, was named a Fulbright ETA Scholar to teach English in Spain.

SUNY CHANCELLOR’S AWARDS FOR STUDENT EXCELLENCE

Honors SUNY students who have integrated their academic achievements with other aspects of their lives, including leadership, athletics, career achievement, community service, and creative and performing arts.

KELSEY BARBOUR  ANDREW LYONS  AMANDA SHERMAN
ERIN ELLIS  ELISE MARTIN  MATTHEW SILVER
EMILY FIORE  KAYLA MAXWELL  CHRISTINE TJAHJADI-LOPEZ
COURTNEY KODWEIS  DANIEL OVADIA  PHILLIP TUCCIARONE
TAYLOR LANSING  ELISE ROBERTS  TRENTON VAN EPPS

WOODROW WILSON FELLOWSHIP

Provides mentoring and access to master’s level education programs to college seniors and new teachers during their first three years at high-need urban and rural schools.

MEGAN ROSS, a 2014 graduate of chemistry and classics, will attend Purdue University as a teaching fellow.

HARRY S. TRUMAN SCHOLARSHIP

Awards highly selective, merit-based scholarships to 60-65 U.S. students planning to pursue careers in government or other public service.

CHRISTINE TJAHJADI-LOPEZ (finalist), a senior geography major, is founder of “Bloggers Against Social Injustice,” an international blog that raises awareness of human rights issues.

OUR SENSATIONAL STUDENTS

Phillip Tucciarone put his talent to work at UB, taking full advantage of its resources and making a noticeable impact on campus and beyond. But he wasn’t the only one. In the past year, a remarkable group of student leaders, scholars and researchers received state and national recognition for their high-caliber achievements.

BARRY M. GOLDWATER SCHOLARSHIP

One of the country’s most prestigious student awards, given annually to sophomores and juniors planning to pursue advanced degrees in mathematics, the natural sciences or engineering.

SEAN BEARDEN (left) Having inherited his passion for math and science from a “kooky” great uncle interested in concepts like perpetual motion, Bearden has been conducting research on spin lasers. These futuristic gadgets aim to manipulate spin in order to reduce the electric current needed to create a highly focused laser beam—an advancement that could lead to more efficient data transfer in computers.

NIGEL MICHKI After taking an Honors College seminar on basic pharmacy, Michki, a computational physics major, was inspired to explore how physics can be used to study biological systems. He has taken on the challenge of building a device that will help scientists study proteins in solution, which could lead to a better understanding of cellular systems—as well as the medicines that treat them.

Honorable Mentions: STEPHANIE KONG, KRISTINA MONAKHOVA.

HARRY S. TRUMAN SCHOLARSHIP

Awards highly selective, merit-based scholarships to 60-65 U.S. students planning to pursue careers in government or other public service.

CHRISTINE TJAHJADI-LOPEZ (finalist), a senior geography major, is founder of “Bloggers Against Social Injustice,” an international blog that raises awareness of human rights issues.
IMAGINE you’re diagnosed with Parkinson’s disease. It’s a terrible thought, but now imagine if, instead of a standard treatment plan, your doctor could prescribe a custom-tailored therapy based on your exact genetic makeup.

This hopeful vision underlies UB’s Buffalo Institute for Genomics and Data Analytics (BIG), part of a $100 million collaboration between UB and the New York Genome Center aimed at putting New York State at the forefront of personalized medicine. Announced in January by Gov. Andrew Cuomo, this bold initiative has the potential to revolutionize the way physicians treat, prevent and manage disease.

To be successful, genomic medicine requires the analysis of massive amounts of information, or “big data.” This is where UB fills a critical role, thanks to the university’s expertise in high-performance computing, combined with recognized national leadership in genomics and analysis of patient data. UB has vast capabilities within its Center for Computational Research, New York State Center of Excellence in Bioinformatics and Life Sciences, and Institute for Healthcare Informatics.

The big picture—or, in this case, the BIG picture—includes a major shot in the arm for the Buffalo Niagara economy. The governor’s investment in UB, part of the Buffalo Billion commitment, is already attracting companies that support genomic medicine to the region, and is sure to spur the creation of many more.

“if I had one word to summarize what the genomic medicine project means, it’s hope. It gives us hope that we will finally be on a path to solving disease on a personal basis, so we’re not treating sick people but preventing disease based on the risks we find in their genomes.”

NORMA NOWAK, UB PROFESSOR OF BIOCHEMISTRY AND FOUNDER/CHIEF SCIENTIFIC OFFICER OF EMPIRE GENOMICS
“ONE OF THE MOST urgent challenges faced by humankind is finding ways to sustain human existence while adapting to climate change and the evolving needs for energy and fresh water.”

So said UB Provost Charles F. Zukoski in February 2014, as he announced the launch of RENEW (Research and Education in eNergy, Environment and Water)—an ambitious, interdisciplinary, university-wide research institute designed to face these challenges head-on, and position UB as a leader in environmental and energy research.

RENEW evolved from UB 2020, a plan to position UB as one of the world’s leading universities by investing in and harnessing research strengths in an effort to bring positive changes to the world. “This is what great research universities do,” said Zukoski. “We bring together the best minds to address timely topics and solve problems.”

Below are just a few of the research projects currently underway at RENEW:

- Development of biological control mechanisms to fight massive algae blooms in Lake Erie
- A study of how consumers react to economic incentives when shopping for a hybrid car
- A project that addresses the legal implications of climate change for land conservation agreements
- An investigation into how environmental and occupational exposure to pesticides affects human health

Interdisciplinary research institute is focusing on critical environmental problems
**WALL STREET JOURNAL**

“If people are politically skilled, they can do bad things really well.”
—Darren Treadway, associate professor of organization and human resources, about his research on bullying in the workplace

**ARCHITECT MAGAZINE**

“Seeing a million bats fly out at once from under a bridge—those are experiences that are sublime.”
—Rice Wang, associate professor of architecture, about how the bald fly for design practice around incorporating animal habitats into urban areas and projects

**FORBES**

“The issue with texting and going across intersections is a serious public health issue that results in serious public health injuries and deaths.… It’s a step forward, but it’s not a giant step. It’s a battleship they are building, it’s not a dinghy.”
—Gary Givino, professor and chair of the Department of Community Health and Health Promotion, on his crowdsourcing project CrowdHydrology, which collects data and engages the public in assessing local water systems

**TIME MAGAZINE**

“The study found significant correlations between video-game guilt and the moral foundations violated during game play.”
—Matthew Brizendin, assistant professor of communication, about his study that indicated playing a terrorist in a violent video game may make you more morally sensitive

**NATIONL PUBLIC RADIO**

“I deal with accusations, whispers, public statements, grooves that people make. Usually, my model shows, no, this play really was within expectation.”
—Anke Redman, “chess detective”

**HUFFINGTON POST**

“Most fish wag their tails to swim. A stingray’s swimming is much more unique, like a flag in the wind.”
—Michael Basinski, professor and emeritus of American studies, on the evolution of our agogical lens to this class of aquatic animals

**ABC**

“This collection draws scholars and fans from around the world who drive hundreds of miles to stand in the presence of this material.”
—Michael Bagkeris, curator of the Poetry Collection, about a U.S. exhibition marking the anniversary of the birth of Welsh poet Dylan Thomas that includes rare materials from UB

**USA TODAY**

“The kid humanized the whole business of trading. While other babies are just pictures, this one has a personality that is pure pop culture.”
—Clare Nappi, a senior editor at USA Today, on an algorithm for introducing products, wildly successful “spokesbaby” from E-Trade’s TV commercials

**FUTURITY**

“This is an important distinction that could help researchers decide which kind of drugs and other forms of therapy for some of these debilitating diseases.”
—Jennifer Temple, associate professor in the United States of Public Health and Health Professions, about her research on when developing treatments for some of these debilitating diseases

**NBC NIGHTLY NEWS**

“This study shows that what we could consider to be a low dose of caffeine—what some might not think twice about giving to an 8-year-old—is having an effect on the carer’s basic ability to function.”
—E. Bruce Pitman, professor of psychiatry, on a study showing that caffeine might not be as bad for children as we thought

**NATIONAL SCIENCE FOUNDATION WEBSITE**

“You see these wonderful eruptions with the plumes, but gravity currents are going down the mountain. It can be very deadly.”
—Bruce Pitman, professor and Dean of College of Arts and Sciences, about using mathematics to calculate and understand mudflows and other debris flows

**DOMUS (ITALY)**

“Planning and design for UB and our region came together because UB leadership recognized that our responsibility in the evolution of our campus extends to the community. I have had the opportunity to put a scholarly and pedagogical lens to this work, essentially turning the development of our campus, city and region into a living laboratory for our faculty and students.”
—Suzanne SPAV, Chair of the School of Architecture and Urban Planning, on his role in a series of planning projects at UB and in the broader Western New York community

**LOS ANGELES TIMES**

“It’s a popular view that it’s a low dose of caffeine—which some might not think twice about giving to an 8-year-old—is having an effect on the carer’s basic ability to function.”
—E. Bruce Pitman, professor of psychiatry, on a study showing that caffeine might not be as bad for children as we thought

**USA TODAY**

“The kid humanized the whole business of trading. While other babies are just pictures, this one has a personality that is pure pop culture.”
—Clare Nappi, a senior editor at USA Today, on an algorithm for introducing products, wildly successful “spokesbaby” from E-Trade’s TV commercials

**INTERNATIONAL BUSINESS TIMES (AUSTRALIAN EDITION)**

“Almost immediately when pharmaceutical companies started introducing products, they claimed they were either non-addictive or less addictive.”
—David Seridian, associate professor of history, on researchers’ latest efforts to make addictive-proof panaceas
OUR PLACE IN THE SUN

UB one of 20 schools nationwide chosen to partake in solar house competition

IMAGINE TENS OF thousands of people traveling across the country to cheer for their favorite team ... of architecture students.

That will be the scene in Irvine, Calif., in 2015, as UB competes against a handful of other universities in the U.S. Department of Energy’s Solar Decathlon—a national contest in which collegiate teams design, construct and operate cost-effective solar dwellings.

Earlier this year, UB was chosen by the Department of Energy as one of only 20 schools to compete in the prestigious event. Each solar house will be judged in 10 contests, ranging from architecture and engineering to home appliance performance.

The name for UB’s entry—the GRoW House—refers to three spaces inside the 884-square-foot home, where residents can Garden, Relax or Work (GRoW): a glass room for growing plants, a super-insulated office/bedroom and a kitchen. Organizers hope their efforts will prove that solar power is a viable option for the Buffalo region. In fact, the GRoW House has been designed to not only produce more energy than it consumes, but to reduce lifestyle energy use as occupants raise their own food and power their (electric) car with the house’s solar energy.

“Sometimes, to get things moving, you need a project that captures people’s imaginations—something people can experience firsthand.”

MARTHA BOHM, UB ASSISTANT PROFESSOR OF ARCHITECTURE
**A WORLD of GOOD**

Nearly a quarter of UB’s medical students volunteer abroad

FOR STUDENTS FROM UB’s School of Medicine and Biomedical Sciences, growing interest in global health is turning the world into a classroom. In ever-increasing numbers, student volunteers are serving in remote hospitals and clinics around the globe, in countries where a lack of basic resources and sufficient medical practitioners can create challenging situations, along with tremendous opportunities.

In Uganda, for example, fourth-year medical student Julie Garchow was able to assist with cesarean sections—a role typically limited to interns and residents in the United States. She also worked with HIV patients, developing a color-coded medication labeling system for those with minimal literacy, and treating comorbidities including malaria and typhoid—“diseases you just don’t see in the U.S.,” she says.

Garchow is former president of UB’s International Health Interest Group, a student-run organization that helps facilitate overseas rotations and gathers regularly to discuss issues in-global health. This group is partially responsible for the fact that almost a quarter of our med students serve overseas.

But they’re not the only ones at UB with a global outlook. Nearly 11 percent of all students—five times the national average—visit other countries through more than 70 study abroad programs.

UB students are also making a difference in our own backyard. Here is a sampling of the dozens of initiatives that serve our local community.

**EACH YEAR, IRS-certified accounting students from the School of Management provide free tax preparation services to middle- and low-income residents. Over the past seven years, they’ve brought more than $6.7 million back into the Buffalo community.**

A DENTAL CLINIC run by the School of Dental Medicine at the new Erie County Health Mall is giving residents of an East Side neighborhood access to dental care while providing students hands-on experience in setting up a practice.

**SINCE 2011, students from the Graduate School of Education and other UB volunteers have helped more than 1,000 low-income families fill out FAFSA financial aid forms, making college possible for increasing numbers of high school graduates.**

---

**337.** First phase of UB downtown medical school construction is awarded to LPCiminelli

**338.** Inventors and entrepreneurs honored at UB reception

**339.** Winners revealed in Target Case Competition

**340.** Zohydro will create new addicts, UB addiction medicine expert says

**341.** Up to 2,000 engineers expected in Buffalo for summer conference

**342.** UB designates tax-free zones in Buffalo and Amherst for START-UP NY

**343.** Daylight saving time adds stress to the sleep-deprived, says UB sleep medicine physician

**344.** MAC East Champions: Bulls dominate BG For Senior Day victory

**345.** Loesing, Sharkey and Malone honored as All-MAC performers

**346.** Making diabetes screening more available at the dentist’s office

**347.** Javon McCrea named MAC Player of the Year

**348.** Eight MBA students advance to Whitman Case Competition finals

**349.** More than $25,000 at stake for aspiring entrepreneurs in Panasci Competition semifinals

**350.** From Uganda to Haiti, UB medical students to discuss caring for the underserved overseas

**351.** Lecture to highlight how new technology will revive Rust Belt

**352.** New program to boost Buffalo’s Kensington-Bailey business district

**353.** Aquaponics, acid reflux demos and more! Summit to feature student science projects

**354.** Leadership conference to feature national and regional executives

**355.** Strongest evidence yet of two distinct human cognitive systems

**356.** 13 to be honored by the UB Alumni Association

**357.** Perennial favorite frozen banana, STDs that ‘keep on giving’ and other ‘Cool Science’ attractions return to UB

**358.** Buffalo’s grassroots initiatives and the future they portend

**359.** Not just the gut: Negative relationships, fatigue are more powerful than symptoms in IBS patients’ health perceptions

**360.** Citizen Planning School will train community members to transform ideas into action

**361.** Civil Wars: ‘Narrating Horror and Hope’

**362.** New education lecture series will bring prominent speakers to UB

**363.** UB School of Management to host first Military MBA Preview Day

**364.** UB’s Morse presides over first graduation of Zimbabwe Traditional Healers

**365.** Nursing expert on diabetes to present the 2014 Margaret A. Nelson Lecture

**366.** U.S. News & World Report ranks UB grad programs among best in nation

**367.** UB weight-loss researchers are recruiting families for study on memory and attention training

**368.** UB MBAs take second place in prestigious Whitman Competition

**369.** Creating fiscal phenoms—Teens to compete in financial literacy challenge
Too many people with cancer are treated with a method that could be far more effective and less harmful, according to UB researchers.

APRIL 2014

IT SOUNDS LIKE a scene from a James Bond movie. But instead of taking place on the streets of an exotic city, this action happens deep inside a blood vessel—and the futuristic vehicle is a microscopic pod called a “nanoballoon.”

“Think of it this way,” said UB researcher Jonathan Lovell. “The nanoballoon is a submarine. The drug is the cargo. We use a laser to open the submarine door, which releases the drug. We close the door by turning the laser off. We then retrieve the submarine as it circulates through the bloodstream.”

Lovell, an assistant professor of biomedical engineering (a relatively new department which spans the School of Medicine and Biomedical Sciences and the School of Engineering and Applied Sciences), is talking about the novel technology he uses to deliver chemotherapeutic drugs directly to cancer cells. It’s such a potential game-changer in the fight against cancer, the National Institutes of Health awarded Lovell a five-year, $1.9 million grant under their Early Independence Award program—one of just 15 awarded nationwide to fund high-risk, high-reward research.

Typically, chemotherapy is delivered intravenously. But as the powerful drugs spread through the body, they often interact with healthy bodily systems, diluting the drugs and causing side effects like nausea and hair loss.

To address these concerns, Lovell inserts chemotherapeutic drugs into tiny modified liposomes that are roughly 1,000 times thinner than human hair. When the nanoballoons reach the cancer cells, Lovell strikes them with a red laser, triggering them to pop open and release super-concentrated doses of medicine. “Why [they] open in response to an otherwise harmless red laser is still a bit of a mystery to us, but we have definitely unearthed a new and unique phenomenon,” said Lovell.

“This award could help improve how we treat cancer and potentially alleviate pain that millions of people and their families endure.”

LIESL FOLKS, DEAN OF UB’S SCHOOL OF ENGINEERING AND APPLIED SCIENCES
BITING BACK AGAINST BACTERIA
GETTING CLOSER TO FINDING A LINK BETWEEN BACTERIA IN THE MOUTH AND CHRONIC DISEASES OF AGING

The composition of the oral microbiome (mouth bacteria) and its relationship to periodontal disease in postmenopausal women is the subject of an interdisciplinary study led by epidemiologist Jean Wactawski-Wende of the School of Public Health and Health Professions. The study, funded by a $4 million grant from the NIH National Institute of Dental and Craniofacial Research, may lay the foundation for understanding how the oral microbiome impacts the development of other chronic diseases of aging.

IN WITH THE OLD
PHARMACY RESEARCHERS HIT REWIND TO FIGHT SUPERBUGS

UB scientists hope to squash modern superbugs using a class of antibiotics developed more than 50 years ago. A $4.4 million National Institutes of Health R01 grant—the most prestigious NIH grant and the largest active R01 among U.S. clinical pharmacy departments—will allow Brian Tsuji and his colleagues to develop new dosing regimens for a type of antibiotic that has been proven effective against some antibiotic-resistant bacteria.

PHISH BAIT
UB DUO ZEROES IN ON INTERNET SCAMMERS

Cybercriminals use phishing to scam individuals and organizations all over the world out of personal and sensitive information. With a $320,000 grant from the National Science Foundation, UB researchers Arun Vishwanath, of the College of Arts and Sciences, and H. Raghav Rao, of the School of Management, are exploring what makes people vulnerable to phishing attacks and how they can be better protected.

CRYSTAL CLEAR
NEXT-GENERATION TECHNOLOGY TO TRANSFORM THE FIELD OF STRUCTURAL BIOLOGY

The next big drug discovery could very well come out of research happening at UB, thanks to a prestigious $25 million Science and Technology Center grant from the National Science Foundation to establish the BioXFEL research center. Headquartered in Buffalo and representing a consortium of eight research institutions, the center will use cutting-edge X-ray free electron laser technology to address fundamental questions in biology at the molecular level.

RIA ON THE CUTTING EDGE
ADDICTIONS INSTITUTE TACKLES ALCOHOL, DRUG USAGE IN TEENS

Are youths who drink alcohol-laced energy drinks more likely to engage in risky sexual behavior? Is there a link between bullying and substance use in adolescents? Scientists in UB’s Research Institute on Addictions are exploring these critical issues and others in five innovative studies that together received more than $6 million in NIH grant funding.

NO TIME TO WASTE
ALAN RABIDEAU AND THE BATTLE TO RESTORE BROWNFIELDS

Armed with a $796,000 grant from the National Science Foundation, environmental engineer Alan Rabideau is leading an interdisciplinary team of researchers in developing new management techniques for the nation’s thousands of hazardous waste sites. Eschewing traditional strategies that focus solely on technological solutions and cost, the team is developing an integrative approach that will consider the sustainability of potential solutions and their impact on future generations.
The pitch competition is part of a growing effort at UB to promote entrepreneurship, to realize the promise of UB 2020 and to create an entrepreneurial ecosystem in Western New York.

“... part of a growing effort at UB to promote entrepreneurship, to realize the promise of UB 2020 and to create an entrepreneurial ecosystem in Western New York.”

YONG LI, ACADEMIC DIRECTOR OF UB’S ENTREPRENEURSHIP ACADEMY AND ASSOCIATE PROFESSOR OF OPERATIONS MANAGEMENT AND STRATEGY IN THE UB SCHOOL OF MANAGEMENT
Award-winning linebacker Khalil Mack becomes highest drafted player in UB history

IT’S A MOMENT every college football player dreams of. Sitting in Radio City Music Hall in New York City, waiting to be picked by an NFL team.

That dream came true for Khalil Mack, as the Bulls phenom became the fifth player selected overall in the NFL draft, joining the storied Oakland Raiders.

UB was the only Division I-A program to offer Mack a scholarship, showing serious foresight. Mack was named a first-team All-American, won the Jack Lambert Award, broke the NCAA record for career forced fumbles and tied the record for career tackles for loss as he helped lead the Bulls to an 8-5 record en route to the Famous Idaho Potato Bowl. None of that is to say his success came easy. “He’s where he’s at today because of the effort he put into it,” noted UB head coach Jeff Quinn.

Mack intends to take the same approach as a pro that he did as a student athlete at UB. “If I wasn’t practicing in the offseason, then I was grinding, grinding, trying to get better,” said the four-year starter. “That’s the mindset I have.”

More athletic highlights from the past year:

> Under coach Vicki Mitchell, shot-putter Jonathan Jones finished fourth at the USAF Outdoor Championships, the highest finish for any Bull in program history
> Coach Trena Peel led UB’s softball team to a program-best 30 wins en route to the MAC championship game
> Coach Felisha Legette-Jack brought women’s basketball to its best season in more than a decade
> Guided by coach Bobby Hurley, Javon McCrea was named MAC men’s basketball player of the year
Khalil Mack gave us a lot to cheer about last year. But every year at UB is filled with fun and excitement, from the back-to-school rituals of Opening Weekend to the massive mud-romp that is Oozefest.

**OUR TRUE-BLUE TRADITIONS**

**OPENING WEEKEND**
The Human Interlocking UB, formed this year by 2,300 students, is one of our biggest campus ice-breakers and helps mark the start of the fall semester.

**BIG-TIME COLLEGE FOOTBALL**
At home games, the festivities begin two hours before kickoff with fun, food and games at Stampede Square, a live concert and the rousing “Walk to Victory”

**HAUNTED UNION**
It’s not Halloween at UB without a terrifying trip through the Student Union’s spooky maze

**WINTERFEST**
One of our oldest traditions, Winterfest gets students, faculty and staff outside for cold-weather fun and warm memories

**INTERNATIONAL FIESTA**
Through dance, costumes and music, this awe-inspiring show puts the talents of our diverse student body on proud display

**OOZEFEST**
Students and alumni get down and dirty each year at what has become one of the nation’s largest collegiate mud volleyball tournaments
UB’s first group of START-UP NY companies to bring new investment, new jobs to Buffalo

A GERMAN life sciences firm. A developer of software for wearable devices. A company that provides athlete management information systems to professional sports teams. 

These are among the first eight businesses selected for START-UP NY, a program in which UB and state officials identify tax-free zones on or near the university’s three campuses. New and expanding businesses that align with or further UB’s academic mission, and are accepted into the program, pay no New York State taxes for 10 years.

Standing for SUNY Tax-free Areas to Revitalize and Transform Upstate NY, START-UP NY is a statewide program designed to spur economic development. In June 2014, Gov. Andrew Cuomo came to Buffalo to announce the eight companies chosen as UB’s inaugural START-UP NY partners. Together, these firms plan to create more than 200 jobs over the next five years, with capital investments totaling nearly $6.4 million.

All of the businesses have strong ties to UB, and plan to strengthen them even further—for example, by partnering with UB institutions like the New York State Center of Excellence in Bioinformatics and Life Sciences (CBLS), collaborating with faculty researchers, recruiting UB graduates and providing student internships. “The Buffalo region is experiencing a rebirth and a new energy not seen in decades,” said Gov. Cuomo. “It is exciting to see START-UP NY contributing to Western New York’s economic revitalization.”

Eight more companies were accepted into the START-UP NY program in July 2014. In the next five years, they’re expected to bring 659 new jobs to Buffalo and invest nearly $10 million in facility/space upgrades and renovations.
IT’S THE MOST POPULAR psycho-active drug in the world, and not only among adults. Every day, millions of pre-teens and teenagers count on caffeine to kick-start their morning, bring a little buzz to their afternoon or give them an extra boost at night. In fact, the Centers for Disease Control and Prevention determined that almost 73 percent of U.S. children and adolescents ingest caffeine in a given day, increasingly via coffee and energy drinks.

And yet, very few studies have considered the effects of the drug on young people.

Jennifer Temple, associate professor in the Department of Exercise and Nutrition Sciences at UB’s School of Public Health and Health Professions, is one of the few researchers working in this area. Earlier research by Temple and others has shown that caffeine increases blood pressure and decreases heart rate in children and teens as well as adults. Her most recent study, “Cardiovascular Responses to Caffeine by Gender and Pubertal Stage,” was published online in the July 2014 edition of the journal Pediatrics. It found that, post-puberty, boys have a greater physiological response to caffeine than girls, and that the response to caffeine in girls varies across the menstrual cycle.

Future studies will look into whether these post-puberty gender differences are a result of physiological factors (such as steroid hormone level) or other causes, like different patterns of caffeine use.

Caffeine affects boys and girls differently after puberty, study finds

UB faculty frequently reach across disciplines and involve students in high-level research. Co-authors on this paper include:

> Ashley Bendlin, undergraduate student in environmental studies and psychology
> Theresa Sion, undergraduate student in family nursing
> Adam Gracyzk, graduate student in exercise and nutrition sciences
> Karina Vattana, recent graduate of the medical school
> Amanda M. Ziegler, project coordinator for the Nutrition and Health Research Lab
‘Bad’ video game behavior increases players’ moral sensitivity

UB physician receives abstract award for research on Type 1 diabetes and liraglutide

UB to honor Arthur Eve by naming Educational Opportunity Center building after him

Javon McCrea to play for Dallas Mavericks Summer League Team

Fiebelkorn wins prestigious ‘Bowl of Hygeia’ award for community service

‘Master switch’ for myelination in human brain stem cells is identified

Hobby Lobby decision will not broadly affect concept of ‘essential health benefits,’ says UB health policy expert

UB launches Department of Materials Design and Innovation to boost advanced manufacturing and biotechnology

UB named to Princeton Review’s list of ‘Best Value Colleges’ for 2013

TO BE CONTINUED IN 2014-15...

www.buffalo.edu/list

A GLOBAL UNIVERSITY

Our international perspective shows in everything we do—从 students we recruit to our innovative curricula. UB consistently ranks among the nation’s TOP 20 universities for the enrollment of students from other countries. Nearly 11 PERCENT of students—5 TIMES the national average—study abroad.

AN ECONOMIC POWERHOUSE

With annual revenues of almost $1.6 BILLION from all sources, UB and its affiliated entities generate a tremendous economic impact in the state and region.

Numbers, like words, tell a story. Whether it’s record enrollment, a surge in faculty hires, graduation rates that far exceed the national average or the largest construction project in our history, our numbers say UB is a university on the move. As we look to our future, we see exciting growth and investment, expanding partnerships, and an unremitting commitment by our faculty, staff, students and alumni to make our university, our community and our world a better place.
A GROWING COMMUNITY
UB added 95 new tenure-track faculty in 2013, well above our normal hiring rate, while the university enrolled record numbers of new students: 3,701 freshmen, 1,923 transfer students and 3,658 graduate and professional students.

A WEALTH OF EDUCATIONAL OPPORTUNITY
With more than 100 undergraduate and combined degree programs—and more than 300 graduate and professional degree programs and certificates—UB offers an extensive array of academic programs.

ALUMNI AROUND THE WORLD
More than 230,000 UB alumni live in every state and 130 countries.

A CLEAR PATH TO COMPLETION
UB far exceeds the national average for public universities in graduation rates. The 4-year graduation rate is 52 PERCENT, compared to a national average of 32 percent; the 6-year graduation rate is 72 PERCENT, compared to a national average of 57 percent.

A LOW BURDEN OF DEBT
In the most recent US News and World Report rankings, UB ranked 1ST among public universities for lowest student debt. More than half of students graduate debt-free; the average amount for students who graduate with debt is $17,425.