

OHIO STATE

A L U M N I M A G A Z I N E

FALL
2019

150
1870
2020



How firm thy future

SESQUICENTENNIAL ISSUE



BUILDING VIBRANT FUTURES

For 150 years, Ohio State's students, faculty, staff, alumni, friends and fans have brought together their ingenuity, creativity, passion and compassion to solve challenges big and small, at home and around the globe.

No matter how the world changes, there will remain a need for people to lead, dream up the next innovation and tackle challenges not yet imagined.

Together, we'll continue changing the trajectory of tomorrow and generations to come.



150.osu.edu

OHIO STATE

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As one, we blaze inspiring trails

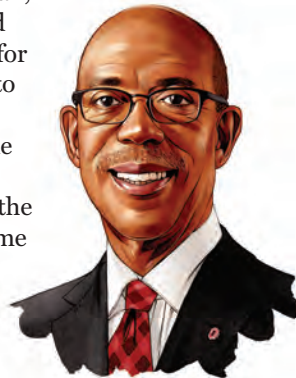
For this special occasion, alumni association CEO Jim Smith invited university President Michael V. Drake to welcome you to this issue.

THE START OF EACH ACADEMIC YEAR is full of promise as we welcome a new class of outstanding Buckeyes. This year will be exciting and historic. Throughout 2019–20, we will celebrate the university’s 150th anniversary — our sesquicentennial. We have big plans, and I hope all of you will find a way to join in.

For a century and a half, Ohio State has provided limitless opportunities for people and knowledge to intersect and move the world forward. From the first students and professors who walked the dirt paths of what became our Oval to the thousands of students, alumni, faculty and staff who lend their insights, passion and care for humankind to solve challenges at home and around the globe, Buckeyes have always been champions for people and their communities.

In this sesquicentennial year, we’ll convene academic summits with experts to further examine the role of the 21st-century land-grant university. We’ll unveil the Carmen Collection, a compilation of untold stories that amplify the voices of our past. We’ll grant scholarships to 150 Sesquicentennial Student Scholars. And we’ll weave the anniversary theme throughout our annual marquee events — from welcome week to commencement.

The year will be a celebration of all that the people of Ohio State have accomplished — and all that is yet to come. None of it is possible



without the friendship, support and incomparable spirit of Buckeyes everywhere. Ohio State was founded in 1870 as one of America’s great land-grant universities. Despite time and change across our university and around the world, our mission is as clear today as it was 150 years ago: to illuminate a pathway to learning and discovery that changes lives and uplifts society. At the same time, the ways in which we teach, research and live are always evolving — and the university continues to evolve to meet the changing educational needs of our students and to produce knowledge to make the world a better place.

On the pages that follow, you’ll find examples of our university in action: Ohio State research scientists addressing some of the world’s many pressing challenges, including food security and opioid addiction. Staff members, most of them alumni, teaming up with residents and partners to invigorate housing, education and employment on Columbus’ Near East Side. Students volunteering their time during breaks to help communities in need through Buck-I-SERV. And the Wexner Medical Center demonstrating its tremendous scope and impact in treating patients and saving lives.

Our university’s force for good over a century and a half is truly transformative — an incredible legacy that serves to guide our future together as Buckeyes. Please join us as we celebrate our history, honor the present and envision the next 150 years of excellence at The Ohio State University. O-H! ✨

MICHAEL V. DRAKE, MD
President
The Ohio State University

*Follow President Drake on Twitter
@OSUPrezDrake*

TAKE PART Explore the many ways you can be part of the sesquicentennial celebration in 2019–20. 150.osu.edu

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Illustration: Michael Hoeweler; Digital photo editing throughout issue by Ammon Anderson

story goes. Some of those Buckeye fans reportedly brought the pose with them when they enrolled at Ohio State after the war.

16. Some 12,000 new alumni received diplomas at commencement this past spring. That would have astonished the first-day class of 24 students, including two daughters of a faculty member, in 1873. Today's **student body** totals about 68,000.

17. If the view on TV looks down on a giant scarlet-and-gray horseshoe, you can bet a Goodyear blimp is hovering over **Ohio Stadium** on a football Saturday. Along with hosting games since it opened in 1922, the 'Shoe has seen concerts and commencements, protests and proposals. You know it's on the National Register of Historic Places, don't you?

18. It's no wonder **Brutus Buckeye** has a big head: He's among the most popular mascots in the nation. The noggin on today's Brutus is just a big nut compared to the 1965 prototype, a heavy papier-mâché creation that resembled a huge bowling ball on legs.

19. **Lincoln and Morrill Towers** were the latest, greatest and tallest residence halls on the Columbus campus when they opened in the mid-1960s. Students today can choose among nearly 50, including those at three regional campuses.

20. **Pelotonia** riders don't just spin their wheels. Every August, they cycle up to 200 miles each to raise funds for Ohio State cancer research. At the first ride in 2008, more than 2,000 participants raised some \$4.5 million; by 2018, those annual numbers had quadrupled. All told, the ride to cure cancer has collected more than \$184 million — with every cent going for cancer research.

21. The world-renowned scientists at **Byrd Polar and Climate Research Center** are the coolest kids on campus. Their treks to frigid and remote parts of the world have netted significant discoveries in geology, chemistry and climate change.

22. After years of work, beloved **Mirror Lake** now reflects earlier incarnations. Originating with a stream that ran through the young campus, the lake grew and changed over the next 150 years, gaining a brick bottom and stone walls. It now features sloping banks and native plants that attract pollinators and enhance sustainability.

23. Since 1930, **William Oxley Thompson's august figure** has gazed down the Oval's Long Walk from the library that bears his name. The larger-than-life statue reflects the fifth president's influence on Ohio State. During his 26-year tenure, which began in 1899, Thompson's progressive views were the basis for many milestones, including the university's designation as the flagship of Ohio's public higher education system.

24. **The obelisk** that rises 82 feet above Ohio State Newark's campus was dedicated in 1994. Its carillon can ring out

more than 2,000 tunes, including, of course, "Carmen Ohio."

25. Deployed from the International Space Station last year, the **CubeRRT satellite** represents one in a long line of Ohio State space-related feats. It will test a new way for future NASA radiometer missions to overcome interference while collecting data.

26. Students in the First Year Experience Success Series are treated to a tour of **the Oval** that features tales of Ohio State's early years and revelations about buildings and traditions new, old and long gone. With its many

landmarks and legends, the Oval is the living heart of our Columbus campus.

27. Students at Ohio State Marion never have to wonder how much time they have to get to class. **The clock tower** at the center of campus marks every quarter hour with the venerable Westminster chimes.

28. The avant-garde found a new home on the Columbus campus with the 1989 opening of the **Wexner Center for the Arts**. Today, the Wex is known the world over as an instructional lab, exhibition space and performance venue for all types of contemporary artistic expression.

29. In 1890, a fledgling **football team** from Columbus beat the crew from Ohio Wesleyan University in Delaware to win its first-ever game. Since then, the juggernaut known as the Ohio State Buckeyes has notched eight national championships, 37 Big Ten titles and 10 undefeated seasons — all to the delight of fans who pack Ohio Stadium and venues across the country on fall Saturdays to cheer for their team.

30. At an average speed of 341.4 mph, the **Venturi Buckeye Bullet 3** streaked across Utah's Bonneville Salt Flats and into the 2016 record book as the fastest electric vehicle in the world. It was the culmination of a multiyear effort by students at Ohio State's Center for Automotive Research to harness the power of green technology.

Patrick Kastner provided artistic direction for the cover illustration, while other University Marketing colleagues offered insight and inspiration. Text here by Lynne M. Bonenberger and Mary Alice Casey, the alumni magazine's former and current editor, respectively.



MEET THE ARTIST

Vesa Sammalisto hails from the rocky shores of Helsinki, Finland. He began his career at a studio in Berlin, and while there earned the prestigious ADC Young Guns Award. He counts Sony, Twitter, Google, BMW and *Wired* among his clients. A nature lover always seeking challenges and adventures, Sammalisto enjoys snowboarding and racing mountain bikes in his spare time.

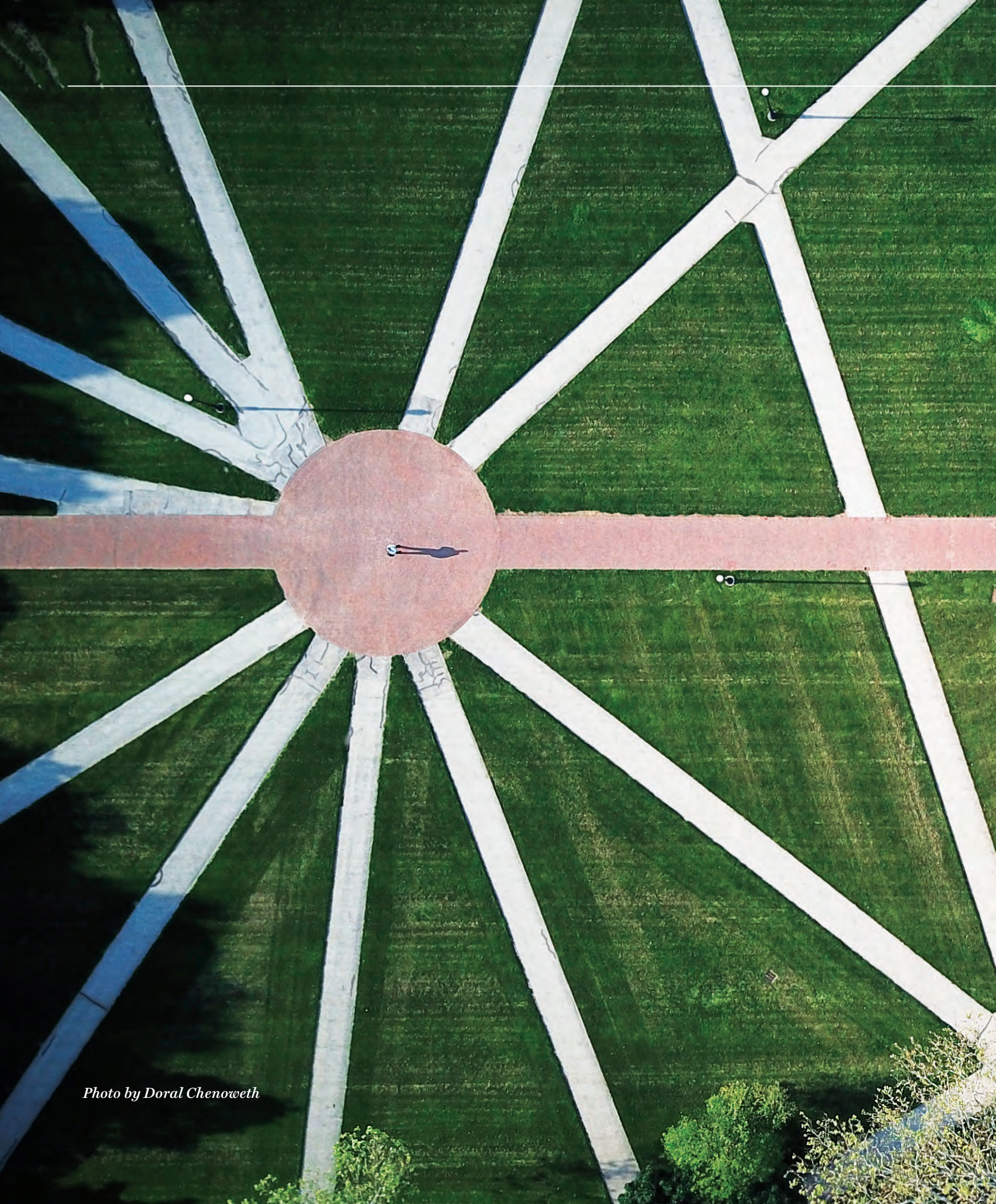


Photo by Doral Chenoweth

UNLIMITED POTENTIAL

We all came to Ohio State seeking our own path. Options spread out like the Oval's intersecting walkways, many of them originally dirt trails blazed by students of the late 1800s. We made choices about directions, sometimes with halting steps. Other times we glided across campus with brisk confidence and honed purpose. Along the way, we met Buckeyes who inspired and empowered us. Connections evolved into partnerships, with shared desire and determination providing strength. Fresh perspectives and knowledge broadened our horizons. Together, we saw challenges, but mostly we saw new possibilities. We see them still. — TODD JONES ✱

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Celebrate Ohio State's landmark anniversary with this special section packed with stories that explore our roots and pioneers, the achievements of today's Buckeyes and the promise of our future. **Starting on page 26**



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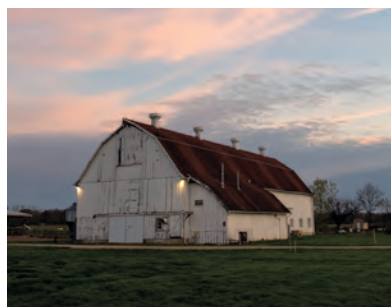
More magazine is a click away

Visit go.osu.edu/alumnimag for web-exclusive stories, plus video, audio, images and other fun extras.



Hey, Coach

▶ As Ryan Day embarks on his first season at the helm of the Buckeyes football program, you wanted to know more. More about his game, his approach to working with student-athletes and even his taste in music. Hear what he had to say in our video.



Down on the lab

▶ Think Waterman Agricultural and Natural Resources Laboratory is mostly livestock? Our video showing the innovative research and diverse community outreach happening there from dawn to dusk will change your mind!

Get sucked in

▶ Humans have been creating myths and legends about black holes almost since Albert Einstein opened the door to their potential. Scientists prefer to stay in pursuit of the truth, though. Ohio State astrophysicist Todd Thompson sets us straight on some popular beliefs about these space mysteries.



Off with her head

▶ Nike of Samothrace, standing guard over visitors to the Cohen Family Grand Reading Room inside Thompson Library, is a stunner with an epic wingspan and, curiously, no head. Her story gets only more interesting from there, as you'll see in our video.

In Memoriam

Remember alums who have passed away.

AlumNews

Catch up on your classmates' latest personal and professional milestones.

➔ Keep up with The Ohio State University Alumni Association on social media!

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Philanthropy: forever in style

A PHOTOGRAPH IN THE SUMMER ISSUE of *Ohio State Alumni Magazine* captured three alumnae sharing a moment of enthusiastic connection at a recent Women & Philanthropy celebration. The photo was snapped moments after I introduced Sarah Nerad '15 MPA, a former classmate of mine in the John Glenn College of Public Affairs, and Alex Reed '15, a new friend I met through Ohio State's Young Alumni Academy, to my aunt, Angee Acquista '86. I admire each of these women, along with more than 200 other members of our organization, for their strength and passion to serve their communities.

Women & Philanthropy provides us with an opportunity to connect with one another and pay forward together by choosing the causes and students we fund each year through a unique voting process. We connect across generations to empower future Buckeyes, advance research pursuits and impact our university community.

As an alum, stewardship professional at Ohio State and council member for Women & Philanthropy, I was delighted



Graduates (from left) Sarah Nerad, Alex Reed and Angee Acquista meet at a gathering of Women & Philanthropy, which supports the innovative work of students and faculty.

to see the story on our organization and to read the feature on Sarah Parker, one of our four inspiring scholarship students.

Never before have I encountered such a kind, giving, genuine group of women, united in a common purpose. I could not be more proud of Sarah for living out her values as she pursues a career in fashion, commits to sustainability and seeks opportunities to volunteer. A life rooted in a philosophy of giving will always be in style, and I invite others to join our mission to pay forward. You can find out more at go.osu.edu/wp.

CAROL SCHWIEBERT '17 MPA
COLUMBUS

Ohio State of mind — in NY

FOLLOWING UP ON YOUR Where I Live story on the capital region of New York (summer 2019), I wanted to share our story about life in the Empire State. Eight years ago, my husband (and fellow 1991 graduate), Scott, and I left Ohio to pursue better jobs. We landed in the Corning/Horseheads/Elmira area of New York, also known as the Southern Tier.

Renting our first house in Big Flats, New York, led to my cherished friendship with Connie Zehr, an Ohio State graduate of 1960. She is an artist who specializes in glass and sand installations, and her studio is truly a sight for the creative eye. It has been a blessing to meet her, and she remains one of my favorite people on the planet.

My love of books and reading brought me to another Buckeye. Owen Frank '90 is the local librarian at Horseheads Free Library, less than two miles from our house. He always has a smile on his face and an "O-H!" to exclaim as I enter the library. He proudly displays the book *Brutus Buckeye* on the corner of the children's section and has the artist who does a mural for the library inconspicuously incorporate an Ohio State icon in the drawing each season.

These Buckeyes of the Southern Tier mean a lot to me. Buckeye blood runs

deep, even 440 miles from Columbus. Be proud of your alma mater; the four of us most definitely are!

JULIANN ERDMAN '91
HORSEHEADS, NEW YORK

Standing O for humanity

THANKS TO JIM SMITH and his colleagues for the summer issue of the alumni magazine and their efforts to illustrate what is surely the essence of The Ohio State University community: a common desire to do good and the willingness to live out this desire with action.

I first noticed that Ohio State was a different sort of place when I transferred in as a student in 1980. Hardly a day goes by that I don't recall the loving care of instructors such as Claire Rothenbuhler and professors such as Steve Still and Frank Himes. Those people and the community at large understand the inherent worth and value of the individual. Above all else, I hope the university continues to embrace and celebrate care in action.

Please keep up the good work, President Michael V. Drake, professors Emily Rodgers and Jerome D'Agostino, alumni Edison Fowlks and Pete Edwards, along with the many others who exemplify much of what is good in this world.

SAM OGILVIE '84
WILKESBORO, NORTH CAROLINA

Building on firm footing

I WAS SO GLAD TO SEE the importance of civil engineering highlighted with The Legacy's focus on a 1900 surveying camp in the summer issue.

Over 100 years later, geospatial measurements are still foundational to the work of civil and environmental engineers — with several exciting differences: Today, a 14-student Ohio State crew like the one you pictured would include four women and one or two members with a nonwhite racial identity. Plus, crews can be smaller because they are aided by drones,

digital imaging and satellite remote-sensing tools.

The images obtained by these diverse teams ensure that civil, environmental and geodetic engineers can continue their ever-critical work to raise the quality of life for rural and urban communities by providing and monitoring safe and reliable built infrastructure.

ALLISON MACKAY
PROFESSOR AND CHAIR
CIVIL, ENVIRONMENTAL AND GEODETIC
ENGINEERING DEPARTMENT

Stories spark appreciation

I SPENT JUST ONE YEAR at Ohio State achieving my master's degree in engineering courtesy of the GI Bill. But it was happy and productive, and it led to the Procter & Gamble interview that defined the rest of my working life.

However, my ties to Ohio State and The Ohio State University Comprehensive Cancer Center — Arthur G. James Cancer Hospital and Richard J. Solove Research Institute have remained tight, and I always enjoy the alumni magazine.

The stories in the latest edition, featuring the current impact of Ohio State and its graduates around the world, provided the latest, most moving picture of our university's broad contributions. I was moved to write this note to thank you for your effort and creativity in painting this continuing picture of world impact. I appreciate your inspirational work.

FRANKLIN H. WHITE '51 MS
CINCINNATI, OHIO

 **JOIN THE CONVERSATION** We welcome your letters, which we ask that you limit to 250 words. All letters accepted for publication appear online at go.osu.edu/alumnimag, and a selection appears in print. To have letters considered for the winter 2019 print edition, submit them by October 1, 2019. All letters submitted by October 15, 2019, will be considered for the digital edition. We reserve the right to edit letters for space, clarity, accuracy and civility. Send them to us at alumnimag@osu.edu or Letters to the Editor, *Ohio State Alumni Magazine*, 2200 Olentangy River Road, Columbus, OH 43210-1035.

1940s

“ On one gorgeous sunny day in the spring of 1948, Paul Robeson visited Ohio State. There were about 100 students in the audience. I can’t recall his message, but it doubtless dealt in some manner with racial problems in the U.S. Following his speech, Robeson delighted the crowd with an a cappella rendition of ‘Old Man River.’ ”

VAL PEMBERTON '49

1950s

“ I remember dashing back to the dorm after and in between classes to watch the McCarthy hearings on TV. Everyone crowded around the TV in the dorm lounge to catch the latest as history was being made. ”

MARY MARGARET THOMAS '56

1960s

“ When President Kennedy was assassinated, I was in a statistics class. The professor was late. He dashed in and scrawled ‘no class’ on the board. Most of us went to the auditorium, where we heard the terrible announcement. I think it was the day I finally grew up and ceased seeing the world through rose-colored glasses. ”

LOIS WATERS '63, '64 MS

“ Jesse Owens presented me with a gold medal in French Field House when I won the Big Ten Indoor Mile Championship in 1968, setting a new field house and varsity record. He also gave me an autographed lithograph of himself. ”

DAVID PRYSESKI '71



1950s



1960s

What was the most memorable historic event during your time at Ohio State?

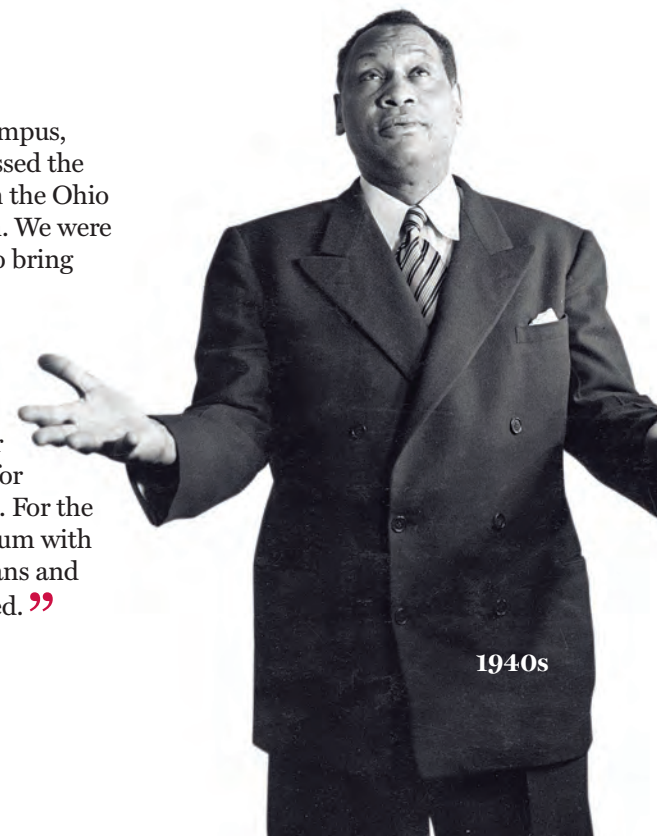
1970s

“ Protests against the war closed the campus, and we missed final exams. We witnessed the Ohio State centennial and gathered in the Ohio Union to see a man walk on the moon. We were the generation that was determined to bring change to our country. ”

SHERRY BROWNING '71

“ Making the ‘Nickerson Turn’ onto Colorado Boulevard as a new member of The Best Damn Band in the Land for the 1971 Tournament of Roses Parade. For the next five miles, it was like a long stadium with bleachers lining the street. So many fans and alumni stood and cheered as we passed. ”

TERRY HAMPTON '76



1940s



Scattered along the timelines of our lives are moments for which there is a before and an after. Before John F. Kennedy was assassinated, and after. Not all of these moments are tragic, or even bittersweet. So many are punctuated by joy, relief, wonder. Before Neil Armstrong walked on the moon, and after. You told us how some of these moments have remained indelibly attached to your time here.

1980s

“ The Challenger space shuttle explosion occurred while I was in an English class on folklore. We went to old Larkins Hall, where there was a television in the lobby, and watched the tragedy for hours. The next day, the professor inquired if anyone had heard any jokes about the event. Several people said they had. We then discussed the role of humor and folklore in helping people through tragedies. It was probably the most powerful class I had at Ohio State.”

TERESA HORSTMAN '86

“

I was a freshman during the Great Blizzard of 1978. Ohio State told everyone to stay home and off the roads. That prompted a few of us to go out for a car spin (literally) to find some food. Many restaurants were closed, but we ended up finding something to eat and came home. It was an amazing memory.”

DAVID EMERLING '81

“

‘Do you believe in miracles? Yes!’ The 1980 hockey game between the USA and the Soviets remains iconic to this day.”

DAVID PHILLIPS '84

1990s

“ I remember watching President Clinton address a crowd outside the site of the Oklahoma City bombing, and being appalled with the story of domestic terrorism. Even then I knew it was an important turning point.”

KATE MOLLOHAN '96, '07, '15 PHD

“

Right before I graduated was the start of Desert Storm. I got in the car after class and turned on the radio. There was President Bush announcing that we had begun airstrikes. It was a very somber time, the first war where my generation understood what was happening and how it would impact the world.”

TAMMY HICKMAN '91

2000s

“ September 11, 2001. I remember that morning being glued to a television in the Ohio Union and wondering what was happening to the world. I remember going home and continuing to watch the news, and talking to my family about the event. Being in college really helped with the process of moving forward.”

JONATHAN CHU '02

2010s

“ The election between President Obama and Mitt Romney was a big part of my junior year. I remember Lane Avenue being shut down because the president was driving by.”

DEANNA WHEELER '14

ANSWER OUR NEXT QUESTION

What did you do during your most productive break in college? Email your answer and it might appear in an upcoming issue. theask@osu.edu



Passing the test of time

In the Louvre and Thompson Library alike, this Greek goddess has endured a lot of attention, not all of it wanted. Lesser women might have buckled. But not our Nike.

HEADLESS, ARMLESS, BUT WITH WINGS TO DIE FOR, the towering replica of the Nike of Samothrace in Thompson Memorial Library has been admired, photographed and subjected through the years to various indignities by waggish students and, possibly, supersonic aircraft.

In 1934, one young man bent on recording the Winged Victory's dimensions climbed atop a table and managed to take a single measurement before being confronted by a librarian. "Miss Victory's hips measure 75 inches," *The Lantern* reported. "She seems our best bet for Homecoming Queen."

John Penniman took a more reverential view in the acknowledgments section of his 2017 book, *Raised on Christian Milk*. Now an assistant professor at Bucknell University, he lived in Columbus and spent hours in Nike's presence as he finished his dissertation for Fordham University in the library's Cohen Family Grand Reading Room.

"There is a violent grace to her posture ... as she steps forward to shout in jubilation," wrote Penniman, for whom Nike signaled the successful end to his research.

The original statue of the Greek goddess of victory was sculpted from marble around the second century B.C., presumably to mark a significant naval triumph. It was unearthed in 1863, minus several appendages, and has been a star attraction at the Louvre since 1884.

Ohio State's current statue — more than 9 feet tall from base to wing tip and astride a 6-and-a-half-foot pedestal — is the university's second full-size replica. The first was a gift from the Class of 1892 and was installed shortly after the library opened in 1913. Made of plaster, it gradually deteriorated. In 1953, director Lewis Branscomb wrote to a university committee about the "hazard to life and limb posed by the huge, cracking



statue." It continued to crumble — due partly, some sources say, to vibrations from sonic booms — and finally was removed in 1959.

Fifty years later, as part of the Thompson Library renovation and with support from Karol Schiff Wells '58 and Richard Wells '56, a new replica made of sturdier material was commissioned under the guidance of library director emeritus Bill Studer.

"Bill deserves credit for championing the cause of replacing Nike in her place of prominence," says Wes Boomgaarden, associate professor emeritus and project officer for the library renovation.

Studer tracked down a firm in Massachusetts that could create the latest replica from the same casting as the 1913 version, Boomgaarden says.

Today, Winged Victory again presides in splendor over the reading room. — **LYNNE M. BONENBERGER '87 MA ✪**

After a 50-year absence, Nike of Samothrace returned to Thompson Library in 2009.



SECRETS OF SAMOTHRACE

Uncover more of Winged Victory's story. go.osu.edu/WingedVictory

SCIENCE & TECHNOLOGY

Supermassive studies

Astrophysicist Todd Thompson sets us straight on the facts about black holes, so often the subject of legend and science fiction.

TODD THOMPSON'S RESEARCH IS UNWORLDLY. His subjects are nearly impossible to see and sometimes light years away. They could even easily devour a star. But Thompson, theoretical astrophysicist and professor in the Department of Astronomy, has become an expert on these black holes scattered around the universe. The mysterious giants — dense accumulations of mass where the gravity is so strong that nothing can escape them, not even light — have tugged at our attention since the early 20th century and Einstein's theory of general relativity, which allowed for the existence of such phenomena. Thompson brings some myths back down to earth and reveals facts that are stranger than fiction surrounding black holes. — KAYLIN HYNES '19 ✨

Claim 1: A supermassive black hole lurks in the Milky Way.

"Is our galaxy or sun being sucked into the black hole in the center of our galaxy? The answer is no. The black hole is very massive — 4 million times the mass of our sun — but that is tiny compared to the entire mass of our galaxy. Actually, the black hole only has an effect on the central region. Just things that get too close." Todd says: It's a **FACT**.

Claim 2: We can "time travel" forward.

"Space time is stretched near a black hole, so it passes by differently. If you went to a black hole and orbited very close to it, everybody on Earth could grow older than you, like time traveling to the future much faster. Time traveling to the future is easy, but time traveling to the past we don't think is allowed." Todd says: It's a **FACT**.

Claim 3: If the sun was swapped with a black hole of the same mass, Earth would get sucked inside.

"Earth would keep orbiting, just as it is now. Nothing would happen, except it would be very cold because there wouldn't be any star light. You have to get quite close to a black hole before something like that would happen." Todd says: It's a **MYTH**.



BUST THAT MYTH Watch Ohio State astrophysicist Todd Thompson explain some of the mysteries of black holes. go.osu.edu/blackholes

OUR EXPERTS

For your reference

Ohio State subject librarians help students navigate obscure research questions.

WHEN YOU NEED TO GATHER RESEARCH AND INFORMATION, you may visit one of the University Libraries. Have a real head-scratcher? There's a subject librarian for that! From assistance with research and reference questions to help managing citations and bibliographies using RefWorks, students can request a free appointment with these subject-matter experts (collectively fluent in 25 languages) by phone or web form. We asked three of these information sleuths to share insights and anecdotes from their adventures in the stacks and beyond. — **BROOKE PRESTON** ✳

Friends in high places



"In 1999, I received a request from a librarian at Quantico (aka the FBI training academy) for a recently published article. I found it and faxed it to her. As a thank you, she sent me her phone number and told me to keep it in case I ever needed anything. I still have it." — **Cynthia J. Preston '78**, assistant professor, subject librarian for College of Social Work and Department of Women's, Gender and Sexuality Studies

Your question has ... many answers.



"There are always questions one can't answer, unfortunately. Having said that, there are also ways to go about tackling the unanswerable! In my areas of expertise, you often have to argue from the absence of evidence just as much as from its presence. Becoming comfortable with historic uncertainty is a big part of working as a historian." — **Eric J. Johnson**, associate professor, curator of rare books and manuscripts

You want to map what again?



"I received a question asking for examples in which geographic information systems (GIS) were used to study the human body. When most people think of GIS, they are analyzing locations on Earth's surface. In this case, the idea was to map out the locations of trauma, pathologies and biological features on a sample of human skeletal remains. It turns out there are various examples of this kind of work, including some by researchers at Ohio State." — **Joshua Sadvari '09 MA**, geospatial information librarian

QUICK STUDY

A quarterly collection of high points and hurrahs that make us feel great about Buckeye Nation

LASTING IMPACT

Ohio State's 2019 Day of Giving, a 24-hour effort in March, raised more than \$4.2 million from 35,568 gifts, funding diverse efforts such as Buckeyes Helping Buckeyes, heart and lung research, student journalists' work at *The Lantern*, the College of Optometry's new clinic facility, the College of Veterinary Medicine's global health programs and scholarships for first-generation students at Ohio State Newark.

DRIVING FORCE

An economic impact analysis commissioned by Ohio State shows the university generates \$15.2 billion annually for Ohio — about \$1.735 million every hour of the year. Ohio State's research enterprise, medical complex, construction projects, athletics events and status as the state's fourth-largest employer combine to support more than 123,000 jobs.

READY TO WORK

The university's spring graduates accepted employment in 98 percent of the 84 in-demand jobs the state of Ohio identified as requiring a bachelor's degree. This marks the third-consecutive year in which this percentage has been above 90 percent. Ohio State is ranked No. 17 in the nation overall and No. 2 among U.S. public universities for graduate employability, according to *Times Higher Education*.

GOING FOR THE GOLD

Ohio State's Columbus campus achieved a gold rating within the national Sustainability Tracking, Assessment & Rating System. The university received high marks in the academic and water management categories, thanks to its sustainability research and a focus on integrating environmental, social and economic goals into operational processes.

NEXT-GEN ALUMNI

Good latitudes

A residence hall program helps international students adjust to life not just at Ohio State, but in a whole new country.



Ohio State students Yongbo Wang, left, and Ivan Yang both participate in the Cultural Ambassador for Resident Enrichment program.

MOVING AWAY FROM HOME for the first time to arrive on a campus as large as Ohio State can be intimidating for many incoming students. For the international students who make up 10 to 15 percent of the students living on campus, home is an ocean away.

Recognizing this, in 2015 Ohio State started the Cultural Ambassador for Resident Enrichment program, an Office of Student Life initiative in residence halls. It works to ensure international students are adjusting to life in the United States and on campus by building community.

“The CARE program helps students’ ability to transition to campus, whether it’s to find a sense of belonging or help with homesickness during holidays throughout the year,” says Sean McClure, program coordinator for CARE. “It’s a lot of students’ first time away from home,

so we help them build community and find students who share their passions.”

The program serves about 1,000 international students a year through the work of ambassadors who hold activities in their residence halls. These events familiarize international students with Ohio State while also helping them celebrate their culture.

McClure says the most popular offering is Hot Pot and Hot Topics, which nods to East Asian culture and gives students a venue to discuss current events around the world and at Ohio State.

Yongbo Wang, a sophomore from China studying hospitality management and economy, was introduced to the CARE program through a friend. He became an ambassador when he found it helped him bridge a gap between international students like him and campus life.

“Being an ambassador gave me a sense of responsibility,” Wang says. “I understand that Ohio State has a lot of international students, but sometimes they are not involved on campus. I am trying my best to contribute and get them involved, and I think the residence halls are a great place to start.”

Ambassadors like Wang meet monthly for workshops that focus on topics such as personal development and understanding campus resources and policies. In the past, ambassadors have taken team-building trips to Cedar Point and explored international culture in Cleveland.

McClure says the program creates opportunities for international students to have the best Ohio State experience, become advocates for themselves and, ultimately, prepare them for the future. “It’s really important that students are able to become leaders on campus and other places because of the confidence and skills they built through this program.” — **KAYLIN HYNES ’19** ✨



LIFE & SOCIETY

Love instructions

Ohio State research finds television can have fringe benefits.

PEOPLE WHO ARE LONELY or trying to escape a difficult situation often take refuge in fantasy worlds they find in movies or TV shows. For those with attachment issues, story worlds may provide more than entertainment.

“People tend to purse intrinsic needs within the story world,” says Nathan Silver ’15 MA, ’19 PhD. “Particularly to the extent the real world keeps us from doing so.”

New research by Silver and Professor of Communication Michael Slater, published in the *Journal of Social and Personal Relationships*, gauges how 1,039 adults coped with attachment insecurities by interacting with small-

screen characters. They examined two types of attachment in romantic relationships: avoidance and anxiety. Silver said the most compelling results suggested those who scored high in both dimensions — people who blend avoiding becoming close with being needy — reported working to fulfill unmet needs vicariously by engaging with stories.

“Those stories tell them how to feel about the world and what to do in it,” Silver says. “The outcome is the perception that they learned something about how the world works and about how people are in the real world.” —

LAURA NEWPOFF ✨

BUCKEYE BUZZ

When alumni groups come together, they accomplish great things.

HERE FOR THE ... HISTORY

The Alumni Club of Greater Cincinnati recently enjoyed a “unique, lifelong-learning event,” says Katie Schwehm ’09, embarking on the Brewing Heritage Trail Cellarmen’s Tour. Along the way, they learned of workers who built Cincinnati’s breweries amid dangerous working conditions and how different life was for those workers and the “beer barons” who built fortunes producing America’s famous beers. The tour even included a trip deep into the subterranean lagering cellars of the historic Crown Brewery.



GOLDEN APPLE

The Alumni Club of Southern Arizona awarded its annual Scarlet and Gray Award for Excellence in Education to Amphitheater High School English teacher Lisa Millerd. The club has selected high school teachers of the year since the early 1990s, when then-club president John Manasky was inspired to recognize local leaders in the teaching field and give them wider visibility in the community.

NEIGHBORLY SERVICE

Members of the Tri-County Alumni Club in central Florida organized a drive for hygiene items for students at a local elementary school, some of whom are homeless. The group collected, sorted and delivered more than \$1,000 in supplies. “This is a wonderful project,” says club representative Donna Smith, “and hopefully the children will have a better life using the products we gather.”

JOIN THE CLUB Share news of how your group is paying forward. go.osu.edu/buckeyebuzz

SCIENCE & TECHNOLOGY

Hacking health

Students in STEM fields put their skills to tough problems experienced by people with neurological disorders.

DIVERSE THINKING AND TALENT fueled innovation at a three-day Brain Health Hack this spring at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Ohio State students formed multidisciplinary teams that used technology — including virtual reality (VR) and augmented reality (AR) — to create ideas aimed at improving the health and wellness of patients suffering from a traumatic brain injury. Three winning teams presented their projects in June at the Global Brain Health and Performance Summit at Ohio State. — **TODD JONES** ✳



VrNS

TEAM LEADER: JACK RUBERTUS

Goal: Combine virtual reality and noninvasive vagus-nerve stimulation to improve motor functions and learning memory in stroke patients.



“Patients with strokes have problems with learning memory and fine motor skills, so we created a matching game through virtual reality to be used as targeted therapy. The game incorporates some small movements of arms and hands to practice fine motor skills. The other aspect of our project involves the vagus nerve, which is connected to all your internal organs and activates a resting pathway. Vagus-nerve stimulation is just a mechanical way to simulate your brain to create a calming effect on the body. We created this prototype, and now we’re trying to incorporate bio-feedback so we can turn the sensors on and off. Then we could use that to lower your heart rate, anxiety and depression.”

Project Velvet

TEAM LEADER: LIAM STALKER

Goal: Use virtual reality to create a basic visual environment that guides patients with vestibular ocular disorders through step-by-step visual therapy for at-home training.



“Some of my friends who have had concussions mentioned they’d like to see VR for vestibular ocular disorders, which is when your brain and eyes aren’t necessarily working together, and you have difficulty keeping a balanced and fixed gaze. There isn’t necessarily a cure for this problem, but you go to a clinic and do these different visual exercises to get better by retraining your brain. I found steps for those exercises and had them recorded so we could recreate them in a virtual reality environment with audible cues. You can experience VR with just your phone. This would allow people to be able to do the therapy — or at least practice this sort of therapy — at home rather than always having to drive to a clinic.”

119

TEAM LEADER: JEN SCHLEGEL

Goal: Empower people with chronic conditions and passersby to reach a common understanding about the right response to an acute medical problem.



“We call our project 119 because it’s supposed to be a better system to help people with chronic and recurring health issues. I came to the idea from having cerebral palsy and a variety of health problems, one that causes me periods of paralysis about four times a week. If people find me unconscious in public, they mean well, but don’t really understand my situation. I then end up in the emergency room even if I don’t need to be there. Our concept is a mechanism, through a notification on your phone, that will take you through a series of questions that are personalized to my health care. The passerby is directed to call 911, another emergency contact or another healthcare provider.”

TIME AND CHANGE

Science and technology building supports growth in Newark

WHEN ALANI COPAS, A FIRST-YEAR STUDENT at Ohio State Newark, heard a new science and technology building could be built on her campus, she was an instant fan of the news.

A microbiology major, Copas previously attended Central Ohio Technical College, which shares the campus with Ohio State and will share the building.

“I know a lot of students have to go to [Columbus] for biology and chemistry classes,” Copas says. “Now that Newark can offer them, they can get the classes here, and it will be less expensive.”

School leadership for the two institutions announced plans for the John and Mary Alford Center for Science and Technology in March. The three-story, 60,000-square-foot building includes much-needed lab, research and technology space.

“It’s going to transform the campus in all sorts of ways,” says William

MacDonald, dean and director for Ohio State Newark. “Number one, it’s going to allow us to offer science courses that have been in really high demand from our students. Number two, we’re a campus in desperate need for space.”

Student enrollment jumped by nearly a quarter between 2013 and 2018 at Ohio State Newark. In fall 2018, the campus had 2,882 students.

Ohio State and Central Ohio Technical College have committed \$17.6 million toward the project. A gift of \$2.5 million came from the children of John and Mary Alford, who were longtime supporters of both COTC and Ohio State Newark. The Ariel Corp. in Newark pledged a \$2 million campaign match. A capital campaign, Building for Our Future, has raised more than \$13.1 million toward its \$14.4 million goal for the facility, which should be complete by spring 2021. — **JOHN**

JARVIS ✱



A rendering of the Alford Center for Science and Technology at Ohio State Newark



POLITICS & POLICY

Fake news, real anxiety

Researchers: Go beyond tech to fight misinformation

OHIO STATE RESEARCHERS Erik Nisbet and Olga Kamenchuk noticed the policy debate around a disinformation campaign that roiled the 2016 presidential election put technology in the hot seat. But they believe the source of the problem is more complex. The pair released an invited paper in *The Hague Journal of Diplomacy* highlighting how psychology explains consumers’ ties to false news. “It’s about dealing with the underlying structural causes of why we’re vulnerable,” says Nisbet, associate professor in the School of Communication.

He and Kamenchuk, associate professor-clinical of strategic and political communications, argue that tech fixes — which policymakers look to as solutions — are akin to treating the symptoms and not the root cause of a disease. Instead, the discourse should focus on difficult cultural issues that prompt people to seek out information as part of their confirmation bias. “It’s about addressing the anxiety and anger about demographic changes and income inequality that give people a feeling of social dislocation,” Nisbet says. — **LAURA NEWPOFF** ✱



“It’s not about you,
or me, but it’s
about what we can
give to this world.”
— Olivia J.
Hooker ’37

PROUD SHE’S OURS

Olivia J. Hooker ’37

OCCUPATION: Psychologist, professor, activist

BORN: February 12, 1915

DIED: November 21, 2018

Olivia Hooker was 6 when she and her siblings cowered under their dining room table as a mob of white people ransacked their home. The Tulsa Race Massacre destroyed her father’s business, killed as many as 300 black Americans and shaped Hooker’s lifelong wish for justice. Her family eventually settled in Columbus. Her new community fostered the budding activist. The Hookers joined St. Paul African Methodist Episcopal Church, a congregation born in protest of slavery and racial discrimination. She made honor roll and competed in oratorical contests. Her parents extolled education, so she enrolled in Ohio State’s College of Education in 1933. She played piano recitals at Pomerene Hall, volunteered with the National Association of Negro Musicians and befriended Jesse Owens in math class. Her Delta Sigma Theta sorority relentlessly campaigned the U.S. Navy to admit black women. She earned her bachelor’s degree in 1937.

CAREER HIGHLIGHTS: Hooker worked as a teacher for seven years in a black neighborhood school on Columbus’ Mount Vernon Avenue. The country was at war, and she still chafed at the idea that she couldn’t serve in the Navy. She wrote to the Secretary of the Navy, but when her acceptance stalled, she joined the Coast Guard in 1945 — and was the first African American woman to do so. Hooker continued her education, earning a master’s in education from Columbia and a doctorate in psychology from the University of Rochester. She worked with the NAACP to battle schools in discrimination cases, fighting a practice of placing black boys into special education no matter their aptitude. As a distinguished professor of psychology at Fordham University, she focused on developmental disabilities in children. In 1997, she helped found the Oklahoma Commission to Study the Tulsa Race Riot of 1921 to make a case for reparations for the violence she and others endured. One by one, other witnesses died, until at 103, she alone was left, still speaking out, still calling for equity. She, too, passed in November. To honor her unflinching commitment to justice and equity, the College of Education and Human Ecology in 2019 introduced the Olivia J. Hooker Distinguished Diversity Lecture Series. — **ROBIN CHENOWETH ’87** ✨

HIGH FIVES

Head of the classroom

FOR 60 YEARS, the Alumni Awards for Distinguished Teaching have recognized faculty members for their teaching excellence. Scholars who also are devoted to the learning experience of their students are nominated by those who know them best — present and former students and colleagues. Winners are selected by a committee of alumni, students and faculty. We asked each of the 2019 recipients how they put heart and soul into their classrooms. — ELIZABETH TARPY ALCALDE '77 ★

APPLAUD YOUR TEACHERS
Nominate a professor for a 2020 Alumni Award for Distinguished Teaching. The deadline is October 1, 2019. go.osu.edu/teachingaward



Tami Augustine
'10 MA, '14 PhD

Associate Professor-Clinical, Department of Teaching and Learning, College of Education and Human Ecology

"I work to create a classroom that encourages **risk-taking, participation, critical thinking and questioning**. I want to have a classroom space that demonstrates value not only to students' outer world, but also their inner world."



Jackie Blount

Professor, Department of Educational Studies, College of Education and Human Ecology

"In all of my classes, I carry **the assumption that every student will in some way shape our educational institutions** in the future. I ask my students to engage in challenging debate and role playing so that they can better grasp some of the social complexities of education decision making."



Peter Craigmile

Professor, Department of Statistics, College of Arts and Sciences

"**We want students to think about the 'why' and not just about the 'how'** of statistics. Statistics does involve learning facts and equations, but it also involves thinking hard about data. There is an art to exploring a dataset and coming up with ways to explore scientific questions using statistical methods."



Claire Kamp Dush

Associate Professor, Department of Human Sciences, College of Education and Human Ecology

"The ideal setting for students' training is in an interdisciplinary setting that exposes students to a variety of perspectives. My goal is to help my students achieve their dreams after graduation. **I push them to succeed at their highest level of potential, and they work really hard to do so.**"



Jonathan Kyle Ezell

Professor of Practice, City and Regional Planning, Knowlton School of Architecture, College of Engineering

"My responsibility is to encourage students to conceptualize — broadly and deeply — and to think — intelligently and boundlessly — for themselves. **I also stress the need to be humbly confident because jobs in the connected 21st century require teamwork.**"



John M. Horack

Senior Associate Dean of Engineering, Professor and Neil A. Armstrong Chair, Department of Mechanical and Aerospace Engineering, College of Engineering, and John Glenn College of Public Affairs

"I seek to impart not only what is to be learned, but why it is to be learned, and how it will be relevant to the student. **We are crew mates on a voyage of discovery.**"



Glenn Martinez

Professor, Department of Spanish and Portuguese, College of Arts and Sciences

"We all may have different journeys and represent different parts of the globe, but **together we are a strong voice in the world and are important advocates** for the teaching, learning and advancement of languages, literatures and cultures."



Danielle Marx-Scouras

Professor, Department of French and Italian, College of Arts and Sciences

"**I expect my students to be at the forefront of their respective fields tomorrow. Why would I teach them anything second-hand?** I want them to leave Ohio State as 'vagabond lovers' (Claude McKay) of life, free-spirited and rebellious thinkers, and selfless individuals."



Dr. Gregory Nixon
'96 OD

Associate Dean of Clinical Services, Professor of Clinical Optometry, College of Optometry

"Students must be challenged to excel but also be **allowed to make mistakes and ask questions of difficult concepts**. This will solidify their understanding of the challenges of contemporary health care and foster a desire for lifelong learning."



Chad Rappleye

Associate Professor, Department of Microbiology, College of Arts and Sciences

"Students often develop the perspective that college is a competition between them and the professor. **I try to convey to them that teaching is not an adversarial relationship.** It is a partnership that is really rewarding when the students succeed."



LIFE & SOCIETY

Hungry eyes

WHEN RESTAURANT DINERS READ menus with wholesome food options printed in a typeface that appears handwritten, they were more likely to believe that the food was better for their bodies and prepared with more care than similar items printed in more conventional fonts, researchers at Ohio State have found.

“That sense of human touch feels even more salient,” says Stephanie Liu, co-author of the study and assistant professor of hospitality management.

A font that appeared handwritten, even if it had been produced by a computer, triggered the perception that extra love and care are imbued in the restaurant’s offerings.

Liu has a theory about why this might be: Technology can put distance between humans and occasionally remove the warmth that comes with human touch. A typeface that appears handwritten, with imperfect curves and slants and organic strokes, conveys a deeper sense of emotional connection than a machine-written typeface, which is typically straight and uniform.

“Customers are just subconsciously processing information, and they feel that human touch in the letters,” Liu says. “They feel that the restaurant is getting this product to you with more care.” — **LAURA ARENSCHIELD** ✨

ARTS & CULTURE

Learning to savor other cultures

“AMERICAN” FOOD INCLUDES A MELTING POT of flavors and influences. Yet restaurants sometimes exploit the cultures they seek to celebrate. We asked Paloma Martinez-Cruz, associate professor of Latino/a cultural and literary studies and author of the book *Food Fight! Millennial Mestizaje Meets the Culinary Marketplace* to help us better honor cultural culinary influences. — **BROOKE PRESTON** ✨



What led you to write this book?

The first chapter that I worked on was “Farm to Table: The Alt Food Network.” Culinary sophistication, aesthetic excellence, local and sustainably sourced food, all of those are important with “farm to table” food. But we need to make sure we’re not just paying attention to what the food is and where it comes from, but who produces it, and what those working conditions are.

How can food consumers celebrate cultures without appropriating?

We should be enjoying each other’s cultures — that’s the thrill of the national project. To achieve its promise, we should look for what misappropriation looks like: defamatory. A local “Mexican” restaurant uses a mustache logo and celebrates Cinco de Mayo with “Ride the mustache” signs, mocking the people to which these foodways pertain. Leave feedback for managers. Purchase fair-trade products (fairfoodprogram.org). Even Target sells fair-trade labels.

What else can food decision makers do that’s helpful?

Sponsor, plan or mentor a migrant’s business, send a worker to culinary school or feature migrant cooks in brand stories. A litmus test: Is this something you would say if most patrons were of Mexican or Latinx heritage, or is it having fun at the expense of a culture? Cinco de Mayo has essentially become Mexican St. Patrick’s Day. There are ways to celebrate culture and welcome people, but think about who you’re welcoming.

Photo: Jo McCully; illustrations: Patrick Kastner

FOOD & AGRICULTURE

Our roots are showing

A three-year project that asks how the Midwest would be affected by varied trade scenarios is providing real-time data to help farms thrive — plus keeping land and water clean and safe.

OHIO STATE WAS FOUNDED in 1870 on the idea that universities should export their knowledge for the benefit of farming, industry and the greater good. The technology has changed, but the spirit hasn't. One example: a three-year, \$2.4 million project that involves researchers from three colleges and an advisory group of 25 stakeholders from five Midwestern states. Their goal: to create models that depict effects of big changes in trade policy on the Great Lakes region's farming and water and energy systems.

"We hope it will be used in the public sphere to help decision makers," says Elena Irwin, the project's primary investigator, a professor in the College of Food, Agricultural and Environmental Sciences and faculty director of the university's new Sustainability Institute. "What we really want to do is make this research relevant, make sure we're asking the right questions from the outset."

It's pure coincidence that this project coincides with kinks in U.S.-China trade relations. Research began in January 2018, before both countries began imposing tariffs on billions of dollars in goods.

"We try to anticipate where the world is going or understand the consequences of decisions that are being made. This is a little different because it's playing out at the same time we're trying to do the work," says Jeff Bielicki, a researcher on the project and associate professor in the College of Engineering and the John Glenn College of Public Affairs.

"Things are changing so fast, it can be difficult to decide on a baseline to use for the 'business as usual' scenario," says Doug Jackson-Smith, another project faculty

member and professor in the School of Environment and Natural Resources. "Our research team has collaborated with regional stakeholders to identify the range of future scenarios that are realistic, but also represent different ways that things may unfold in the coming years."

In addition to scholarly articles, the endgame for this research, funded by the National Science Foundation, includes frequent reporting to stakeholders, who

can apply findings to their work in agriculture, water and energy.

For the researchers, this project epitomizes the way Ohio State lives its land-grant mission and illustrates the ways in which researchers' individual strengths multiply when they come together.

"I like highly collaborative things, Bielicki says, "and this is the most integrative and collaborative work I've been involved in." — **KRISTEN SCHMIDT** *



Bucking gravity

A SHARED GOAL has brought students in the Buckeye Space Launch Initiative to this workshop, despite looming final exams: Spaceport America Cup, a rocket competition drawing teams from around the world to the New Mexico desert each June. James Dai and Anu Timple — project leads for this year and next, respectively — hover over the student-designed rocket, measuring 10.5 feet tall and built to climb to 30,000 feet. Reaching such heights is no small feat. Leveraging expertise in propulsion, avionics, recovery and other specializations, members of this student organization work year-round. “We’d find problem after problem, and it’s so easy to get discouraged,” Timple says. “But instead you’re with a group of people who are willing to stay here from 8 p.m. to 3 a.m. trying to get this rocket done for our test launch.” When it was time to put their rocket to the test in competition, a motor failure stood between these students and their third-straight national title. Lessons were learned. And always aiming higher, the students are working to send their rocket above the Kármán Line at 100 kilometers and into space by 2021. —

KAYLIN HYNES '19 *

Photos by Jo McCulty





Buckeye Space Launch Initiative leaders Anu Timple and James Dai strategize as their team puts in a late night perfecting their rocket for national competition.



JACOB HONERLAW

JUNIOR IN ASTRONOMY

“I’m not in engineering, so I didn’t know what I was getting into when I joined. I definitely feel like I fit right in.”



JAMES DAI '19

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

“You make your own decisions. You do your own work. And you’re really self-motivated to get the rocket done. The work is something you do on your own accord, something you really take pride in as an engineering student.”



CARLY FREA

JUNIOR IN AEROSPACE ENGINEERING

“These people are just so willing to volunteer their time to the team. They’re not doing it for any other reason than they just love rocketry.”



JOE YANOSKA

TEAM VICE PRESIDENT, SENIOR IN AEROSPACE ENGINEERING

“This gives you experience you might not get in a classroom, because most of the time you’re working alone on your own assignments. But here, you’re working on one big assignment with 30 people.”

OHIO STATE'S SESQUICENTENNIAL

150
1870
2020

How firm thy future

In this historic year, we acknowledge with gratitude our roots and our pioneers, we appreciate the achievement and potential of Buckeyes today, and we set our sights on the immeasurable promise of the future.

INSIDE

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GROWING A LAND GRANT

We are rooted in our commitment to leverage discoveries for the benefit of others, making Ohio and the world a better place to live, work and play.

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FOREVER EXPLORING

We create and apply knowledge to learn from the lessons of yesterday, improve the world today and forge limitless possibilities for tomorrow.

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INVESTING IN PEOPLE

We believe in the power of people, as individuals and mighty collectives, and we are steadfast in our mission to help them build a vibrant future.

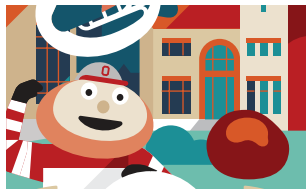
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BUILDING TOGETHER

We connect people, ideas and resources, creating inspiration and resilience with the communities we serve, whether next door or around the globe.

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TREASURING OUR PAST

We build on our history with each passing day, adding to the rich mosaic of experiences, traditions and values that connect us as Buckeyes.

85 FIND YOUR WAY TO CELEBRATE THE MILESTONE



150
1870
2020

GROWING A LAND GRANT

We are rooted in our commitment to leverage knowledge for the benefit of others, making Ohio and the world a better place to live, work and play.





Andraya Starr, a dairy student assistant, starts chores at 4 a.m. daily, including feeding the calves that live at Waterman Agricultural and Natural Resources Laboratory.



Amy Barr '98 MS is the staff coordinator for the Garden of Hope, where vegetables and fruits are grown for distribution to cancer survivors and their caregivers.

BUMPER CROP

*Story by Elizabeth Tarpy Alcalde
Photos by Jo McCulty*

You might know Waterman Agricultural and Natural Resources Laboratory for its bucolic fields, farm-style buildings and grazing cows. A closer look reveals cutting-edge research and technology and a rich rural classroom on a bustling urban campus.



On any given morning, drivers and cyclists passing the green space west of the Olentangy River, not far from the heart of Columbus, may or may not notice the cows. They always seem to be there — it's Waterman *farm* after all.



Except that it's not. Not entirely.

There is a dairy farm, and there are cows. But there also are bed bugs and termites and honeybees. And a turfgrass research facility, a woodland, streams, gardens — lots of gardens — and a shipping container housing thousands of black soldier flies devouring food scraps for a recycling project. Welcome to Waterman Agricultural and Natural Resources Laboratory, a 261-acre hub for teaching, research and outreach in food, agricultural production and environmental sciences.

“Waterman Lab expands the classroom from four walls to the entire outdoors and allows the university and community to engage in addressing many of the challenges facing the world today,” says Cathann Kress, vice president for agricultural administration and dean of the College of Food, Agricultural and Environmental Sciences. “Without Waterman, we do not have a comprehensive university.”

More than 100 active research projects are under way at Waterman, also home base to some 200 outreach programs in turf science, dairy management, entomology, ecological engineering, agricultural systems management, ecology and environmental science,

sustainable agriculture, food science, medicine and behavioral science, and agronomic and horticultural production practices. A multitude of university courses — from beekeeping to biogeography — meet here.

The land once was owned by Joseph Waterman, a prominent agricultural figure in Franklin County. In 1905, his widow, Anna M. Waterman, titled 155 acres of the property to Ohio State for one dollar. The university purchased the remaining 106 acres in 1930. Since then, Waterman has been an essential educational and community resource — a critical component of a land-grant university and a model for how an urban-rural partnership works to create new knowledge and apply it to solve real-world problems.

Consider an ongoing crisis involving our food chain and supply. For more than a decade, honeybee populations have been on the decline. Last year alone, U.S. beekeepers said 40 percent of their colonies died unexpectedly. Honeybees are a major pollinator for crops that produce about a quarter of the food Americans consume, including more than 140 fruits, vegetables, seeds and nuts, and are essential for maintaining U.S. and global food supplies.



Associate Professor of Entomology Reed Johnson, a nationally recognized bee expert, is at the forefront of research unlocking the mysteries of honeybees' demise. Recently, at the behest of the Almond Board of California (no bees, no almonds), Johnson discovered that insecticides and fungicides typically deemed individually "safe" for honeybees turn into lethal cocktails when mixed. Because of Johnson's work, almond growers are rethinking their practices in order to preserve their \$300 million-plus industry.

Each spring, Johnson teaches a beekeeping class to undergraduate and graduate students. For professor and students alike, Waterman is the perfect place for a full-size apiary. "It has the space to allow beekeeping, which otherwise would have to be relegated to limited lab space," Johnson says. "The space provides a unique experience for our students and researchers — in the field, in the habitat."

Graduate teaching assistant Stephanie Murray is living proof. She has been working with Johnson since 2017 and researches the behavior of honeybees and other social insects at Waterman Lab. The facility allows her to contextualize her classroom work.

"It's wonderful to have a space like Waterman, with hives, so that we can really bee-keep," Murray says. "When I work at Waterman, it's the chance to apply the principles I've learned in an environment where I hope to one day work."



As water quantity and quality become critical challenges at home and around the world, Mažeika Sullivan's research on streams, rivers and wetland ecosystems is crucial to understanding the ecology and conservation of this precious commodity. Sullivan, associate professor of aquatic and riparian ecology and director of the Olentangy River Wetland Research Park, has been studying the physical, chemical and biological organization of streams at Waterman since 2008.

"One of the great advantages of having Waterman Lab is that it allows for experimental science and long-term monitoring," he says. "How streams function and how we manage them is something we can test over a long period of time and, with that archive of data, discover new and better ways to manage our ecosystems."

Associate Professor Reed Johnson and students in his beekeeping class inspect the hives at the Rothenbuhler Honey Bee Laboratory.



A GROWING LABORATORY

Ohio State's College of Food, Agricultural and Environmental Sciences plans to invest more than \$50 million in new Waterman Lab facilities within the next two years.

Kunz-Brundige Franklin County Extension Building

OPENING IN 2019

This new home for Franklin County Extension, currently located near downtown Columbus, features multifunctional meeting spaces, a teaching kitchen and a demonstration garden.

Controlled Environment Food Production Research Complex

CONSTRUCTION IN 2020

The complex will include state-of-the-art greenhouse space and expand the college's opportunities in plant DNA-based research, vertical farming and aquaponics. It also will provide a platform for interdisciplinary research in horticulture, engineering, entomology, pathology, food science, computer science and human nutrition/health.

Multispecies animal learning center

CONSTRUCTION IN 2020

Cows, horses, chickens, swine and sheep will be housed at or transported to the center for outreach programs. The center will bring people and animals together for hands-on learning, public events and Extension programming.



Students in a stream ecology class at Waterman Lab evaluate physical features such as sediment and channel dimensions.

Sullivan teaches Stream Ecology every fall at Waterman Lab. Also, to broaden the participation of underrepresented students in STEM disciplines, he invites incoming Ohio State freshmen taking part in the National Science Foundation-funded Louis Stokes Alliances for Minority Participation program to Waterman for a three-week summer program dedicated to water science.

“For many of the students who participate in the summer program at Waterman, it is their first opportunity to conduct hands-on research, and the experience has a tremendous impact on their course and career choices,” Sullivan says.



Students in lecturer Alexis Londo's Forest Biometrics class have 27 acres of Waterman Lab woodland to help them learn the concepts, principles and methodologies of forest inventories and management. Logan Ambrister, an undergraduate majoring in forestry, fisheries and wildlife, recognizes

» *Continued on p. 34*



AGRICULTURAL MILESTONES

FOUNDED AS AN AGRICULTURAL, mechanical and engineering institution, Ohio State has expanded its horizons while continuing to innovate within its original mission. — **ELIZABETH TARPY ALCALDE '77** ✳

Crop rotation and fertilization | 1893

Using experimental plots of corn, wheat, oats, clover and timothy, scientists show the value of rotating crops and amending the soil with manure and commercial fertilizers.

Bed Bug Field Guide | 2018

Susan Jones, professor of entomology, develops the Bed Bug Field Guide app, complete with photos, descriptions and enough information for consumers to know, definitively, what bed bugs look like, where to find them, how to get rid of them and, most importantly, how to ward off an infestation in the first place.

Greenhouse tomatoes | 1905

After 15 years of research, scientists conclude tomatoes can be grown in greenhouses in Ohio.

Space farm | 2011

A team of researchers and students from the Department of Food, Agricultural and Biological Engineering designs and builds a food-production system for NASA's Deep Space Habitat. The system is developed as part of NASA's 2011-12 eXploration Habitat (X-Hab) Academic Innovation Challenge.

No-till agriculture | 2019

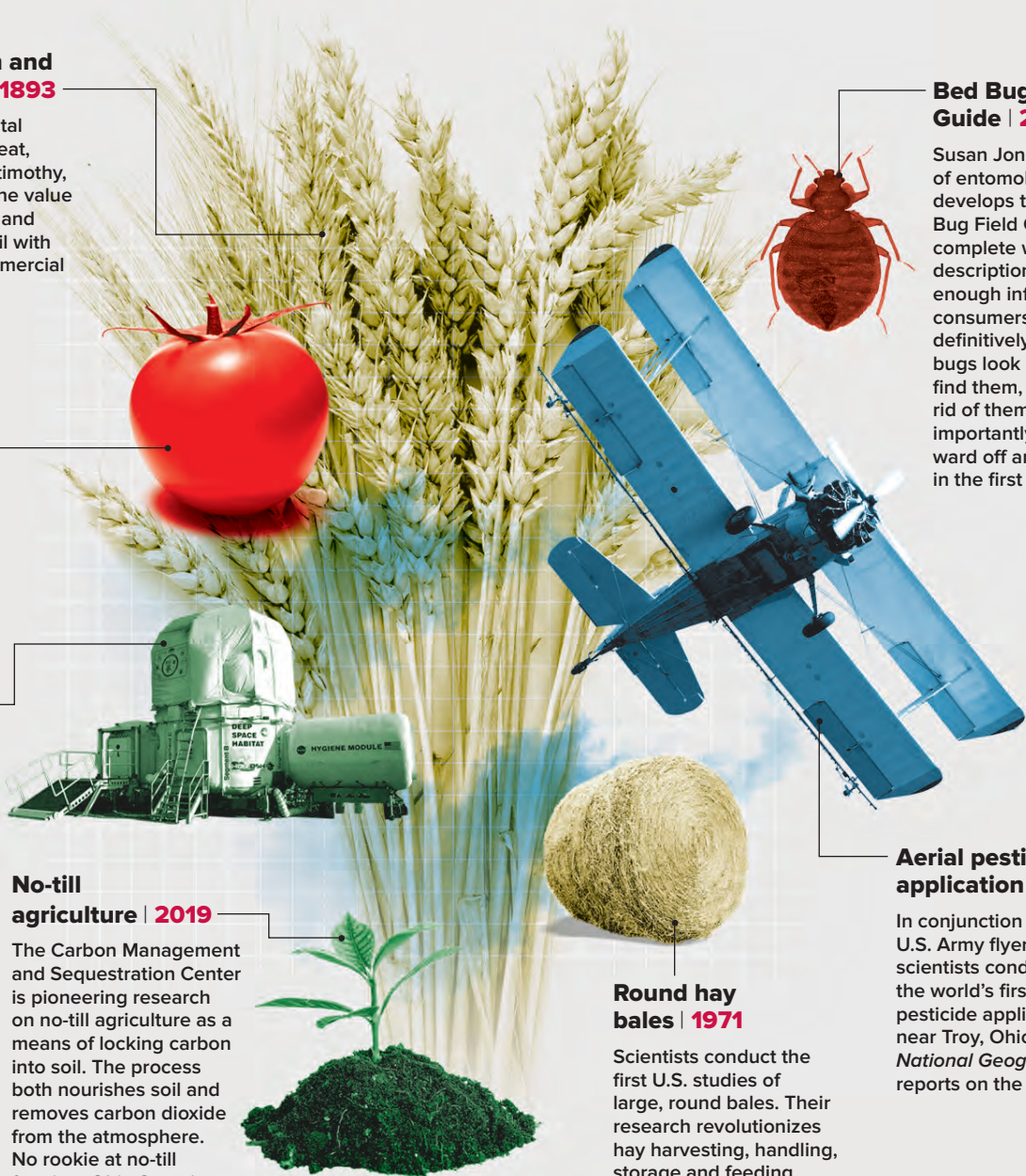
The Carbon Management and Sequestration Center is pioneering research on no-till agriculture as a means of locking carbon into soil. The process both nourishes soil and removes carbon dioxide from the atmosphere. No rookie at no-till farming, Ohio State in 1962 established the Triplett-Van Doren plots, the world's longest continually maintained no-till research plots.

Round hay bales | 1971

Scientists conduct the first U.S. studies of large, round bales. Their research revolutionizes hay harvesting, handling, storage and feeding. Today, such bales are a common sight in Ohio and around the world.

Aerial pesticide application | 1921

In conjunction with U.S. Army flyers, scientists conduct the world's first aerial pesticide application near Troy, Ohio. *National Geographic* reports on the event.





The sun rises on Waterman Lab, which has been an integral part of Ohio State for more than 100 years.



KNOWLEDGE YIELD
Meet some of the people who make Waterman the dynamic learning environment it's become in the past 100-plus years.

[go.osu.edu/
insideWaterman](http://go.osu.edu/insideWaterman)

» *Continued from p. 32*

the woods as an amazing opportunity for Ohio State students. “Getting firsthand experience is essential to learning the ins and outs in any field that uses the forest.” Ambrister has been sampling migrating bird populations across different ecosystem types and studying the woodland as research for a potential business venture that would estimate the volume and value of a given forest.

Kathy Smith '85, '89 MS, Extension program director in forestry, knows the impact a woodland in the middle of an urban campus can have on teaching, learning and engagement. She earned a bachelor's in forest management and a master's in natural resources management from Ohio State, and she will tell you Waterman was a key component of her forestry curriculum. “The woodland at Waterman has had and continues to have a major impact on research and discovery that helps us all become better stewards of our forests and woodlands,” Smith says. “[It] showcases many of the issues our woodlands around the state are dealing with — the impact of nonnative invasive species such as emerald ash borer and bush honeysuckle on the

woodland is not different from what landowners are seeing in their own woodlands across the state. As an Extension person, the ability to take woodland owners into a setting that closely resembles their own property and the issues they face is huge. Then being able to show them options on how to deal with these issues is what we are all about.”

There is much Kress wants to accomplish with the 261 acres called Waterman. In her State of the College address last fall, she pledged to “anchor Waterman Lab as a grand-challenges-focused facility.” Among those challenges are sustainability, the preparation of future scientists and leaders, and the interaction among human, animal and environmental health. The latter, sometimes referred to as “one health,” recognizes that the health of people is intertwined with that of animals and the environment.

“Our goal is to have every undergraduate student step foot on Waterman during his or her time at Ohio State, whether as part of curriculum, a research lab or a volunteer opportunity,” Kress says. ✨

ELIZABETH TARPY ALCALDE '77 is a lawyer and freelance writer in Columbus.



LEADERS REFLECT ON THE POWER OF A LAND GRANT

“Ohio State is the exemplar of the land-grant mission and philosophy. No other land-grant university in our nation can match the breadth and scope of Ohio State’s mission and its ability to carry out that mission.”

WILLIAM E. “BRIT” KIRWAN, Ohio State president 1998–2002, delivering the James F. Patterson Land-Grant University Lecture in 2018

“Universities must appreciate not only what is needed now, but also what will be needed for the future. With this in mind, there must be a willingness to evolve programs as the ever-changing technologies eliminate existing positions, add new career fields to the future of work and offer continuing education for all learners as their needs demand.”

KAREN HOLBROOK, Ohio State president 2002–2007, in a 2018 op-ed in *The Florida Times-Union*

“We must bring the resources and expertise at our institutions to bear on community, state, national and international problems, not by the way of the one-sided model of reaching out, but rather through the development of thoroughly shared relationships that look beyond the traditions of the past.”

E. GORDON GEE, Ohio State president 1990–1998 and 2007–2013, delivering the Patterson lecture in 2008

“It is not enough to create new knowledge — we must apply that knowledge to solving real-world problems. I have every confidence that Ohio State will be tackling worldwide challenges for generations to come. In the end, that is our real legacy — preparing those knowledgeable trailblazers who will one day improve the world.”

JOSEPH A. ALUTTO, distinguished professor of organizational behavior and two-time interim Ohio State president, in a 2014 essay, “A Land-Grant University for the World”

On solid ground

OPTIMIZING OHIO STATE’S land-grant mission, a 19th-century ideal, to meet the challenges of today and tomorrow is a keystone of President Michael V. Drake’s administration. We posed three questions to the president on how that’s being accomplished and why it’s so important. Here are his insights. — **TODD JONES** ✨

What does it mean for Ohio State to be a land-grant institution today in a society that is vastly different from that of 150 years ago?

The mission of land-grant universities has stayed the same over our 150 years. We have a real obligation to educate people of the region and, more broadly, to do the best we can to support the region’s quality of life so that we really are connecting with our communities. Our efforts to elevate quality of life, that part of our mission, has morphed into our research mission — to answer the questions that perplex us today so that we can have a better tomorrow.

How challenging is it to balance the three roles in the mission of land-grant universities — engagement, research and teaching — when the world is changing so rapidly?

The roles more often than not enhance each other. Our engagement teaches us to be better citizens, better stewards, better scholars. Our research gives us new answers and information to address critical problems. Teaching both transmits information to our students and requires us to refine our concepts so that we can explain them to people in ways that make sense. Research, engagement and the understanding required for teaching are three legs of a stool that support each other.

Why is it important that Ohio State continue to evolve?

Higher education is the best investment in our future that we can make. I know that state governments have been squeezed. We appreciate that and want to work with them. I also know that if we don’t invest in the future, someone else will, and we’ll be left emulating others rather than being the pacesetters that we’ve been for these last 150 years. We’ve always been striving, and when you’re striving, you can find yourself — as people, as a nation, as institutions, on uncertain waters. But we don’t coast. We always push ourselves to be on the cutting edge of all that we do.



Keeping education open to all

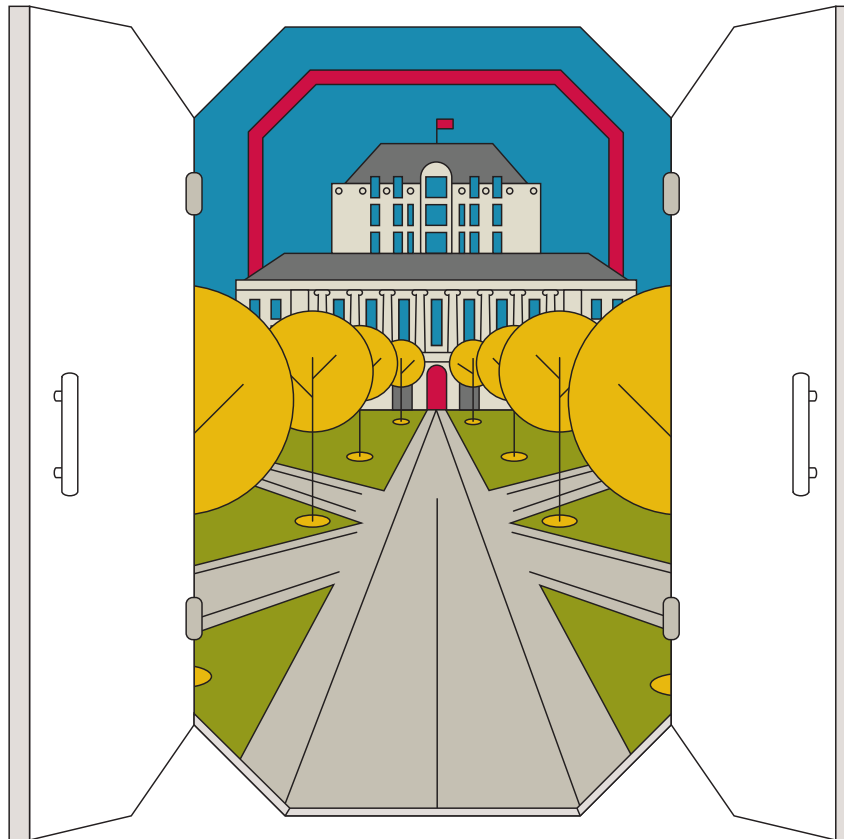
Ohio State was founded on the principle of opening pathways of education to more people. The university stays true to that mission by making access, affordability and excellence top priorities.

Financial aid

Ohio State has committed more than \$150 million in additional financial aid since 2015 through programs unprecedented in the university's history. The Buckeye Opportunity Program, for example, covers 100 percent of base tuition and fees for Ohio students who qualify for federal Pell Grants. Overall, more than 33,000 students have benefitted from this increased focus on aid for lower- and moderate-income families.

Data and technology

A campus-wide predictive analytics program in student advising uses big data to help Buckeyes avoid problems before they pop up. And through the Digital Flagship initiative, a collaboration with Apple, Ohio State placed a catalyst for skills, in the form of an iPad Pro, in the hands of all first-year students across all six campuses. The University Institute for Teaching and Learning, meanwhile, is unique in the nation for implementing a research-based survey instrument on effective teaching practices across the entire university.



THE OHIO STATE COMMUNITY IS PROUD to be a leader in creating greater access, affordability and excellence — a top focus area of President Michael V. Drake and the university's strategic plan. By increasing aid, controlling costs and enhancing programs that support success in and out of the classroom, the university makes an excellent college education more accessible and affordable for those who aspire to be Buckeyes. — **CHRISTOPHER BOOKER** *

Controlling costs

The Ohio State Tuition Guarantee — another first-of-its-kind initiative at the university — freezes in-state tuition, mandatory fees, room and board for four years, offering Ohio families certainty about the cost of a college education. Textbook affordability initiatives are on track to save students \$10 million by 2020 through the Affordable Learning Exchange. Ohio State also eliminated 70 percent of all course fees and reduced summer tuition by 25 percent.

National leadership

Ohio State is a founding member of the American Talent Initiative and the University Innovation Alliance. The latter, a partnership of 11 public research institutions, has increased the number of low- and moderate-income college graduates by 30 percent since 2013. The American Talent Initiative, a collaboration of more than 100 top-performing universities and Bloomberg Philanthropies, has increased enrollment of low-income, highly talented students on college campuses by almost 7,300 since its inception two years ago.

 **LEARN MORE** Read more about how Ohio State is making college affordable. go.osu.edu/AAE

Extending many hands

Ohio State University Extension has expanded far beyond its agricultural roots, serving community needs in each of the state's 88 counties.



A daughter and mother participate in a program called Strengthening Families 10–14, which guides parents and teens through honest, frank conversations about the challenges of adolescence.

BY MARY BETH LANE

FARMERS AND 4-H STUDENTS can still count on Ohio State University Extension. But so, too, can communities battling the state's opioid crisis and landowners looking for fairness in the midst of the shale energy boom.

Involvement in both traditional agricultural programs and projects stemming from more contemporary issues illustrates how Extension works hand in hand with local communities to fulfill the university's land-grant mission.

"We educate. That's our primary responsibility," says Kenneth Martin, past chair of the Department of Extension in the College of Food, Agricultural and Environmental Sciences. "We disseminate research and technology, and we bring people together to address challenges, critical issues and opportunities."

About 700 employees, including 77 faculty in the Department of Extension, work as educators and program staff across Ohio. Each of the state's 88 counties has an Extension office.

In 1914, the Cooperative Extension Service was established by Congress as a nationwide system of community-based education. Today, its educators and staff work in rural, urban and suburban communities, collaborating with local businesses, civic associations and others to take on multiple issues.

Around 2011, for example, as the shale energy boom took hold in southeastern and eastern Ohio and companies sought leasing rights to drill on private land, property owners needed advice, Martin says.

Extension got to work. Educators organized programs advising people to seek legal help to negotiate the best deals for preserving their land rights and securing

optimum leasing and royalty payments. They also offered financial management programs to help landowners experiencing sudden wealth from granting drilling and pipeline rights.

Extension plunged into the opioid crisis in 2018, working with others across the university to obtain nearly \$1.8 million in grant funding over two years to provide a prevention program called PROSPER to sixth- and seventh-graders. Plans call for delivering the program to school districts in nine rural counties and to three school districts in Franklin County, Martin says.

"It's new for us to get involved in this opioid epidemic. Fracking and horizontal drilling were new for us, too," he says. "Both raised new opportunities for education and outreach."

Additional tendrils extend in many directions. Educators and program specialists work to improve water quality, reduce algae in lakes and teach prospective master gardeners and urban farmers. Today's 4-H camps lead explorations of leadership; science, technology, engineering and math; and rocket building and space adventure, to name a few special-interest topics. There's even a camp for kids experiencing the military deployment of a parent.

Taking on another contemporary issue, Extension is developing a new program to help economically distressed farmers cope with stress, depression and other mental health challenges.

Extension works in so many areas that it's difficult to summarize them all.

"We don't have a 30-second elevator speech," says Extension Communication Manager Cheryl Buck, "because we can't describe what we do in 30 seconds."

Actually, she can: "We extend the knowledge of the university out to communities. We work with citizens to come up with solutions and best practices for them right where they live and work — which is the original land-grant mission." ✨

Plugged in

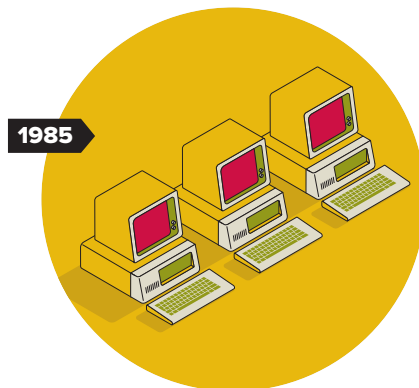
Technology has long played a role in the learning experience at Ohio State.

PERSONAL TECHNOLOGY IS DEEPLY WOVEN into the fabric of how we live and learn on campus and beyond. Throughout our long and sometimes bumpy journey toward progress, Ohio State faculty, staff and students have led the way, showing how new technologies can help us teach, learn and lead. Here are six key milestones in Ohio State's academic technology evolution of the past 50 years. — **BROOKE PRESTON** ✨



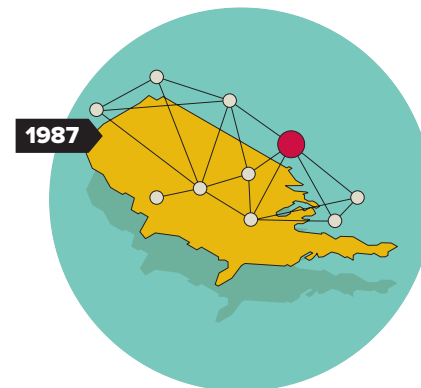
Early adoption

The university created the Department of Computer and Information Science when the department was created in 1968, giving academic gravitas to the emerging subjects. Classes included Digital Computer Programming for Social Scientists, Linear Programming and Modern Methods of Information Storage and Retrieval. By 1982, a *Columbus Dispatch* article noted computers already in use not only in mathematics and engineering classrooms, but in philosophy and landscape architecture as well.



Campus computers

Computer labs came into general student use in the 1980s. The Ohio Union's first lab opened in April 1985 and was one of a dozen scattered across campus. Students used these computers for word processing, spreadsheet creation and database entry. In 1988, 250 machines were made available to students across the Columbus campus in a pilot "to see how often the students use the computers," *The Lantern* reported. Today, general, departmental and mobile labs provide computer and tech access, though they are less in demand as personal technology has evolved.



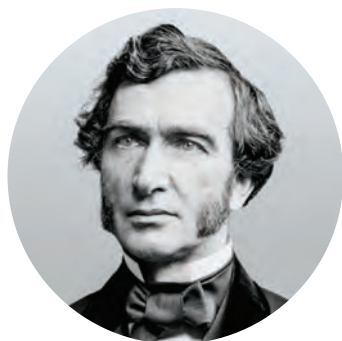
Web connectivity

In 1987, the university connected campus computer systems via the SONNET network. The following year, SONNET connected to the national NSFNET, the university's first portal to the wider, fledgling internet. By fall 1998, residence halls were wired with access to ResNet high-speed internet. The quest for ultimate campus connectivity continues: In 2018, the university began upgrading Wi-Fi systems to strengthen access throughout its campuses.

EDUCATION FOR THE PEOPLE

Land-grant universities changed the face of the American college student.

BEFORE 1862, when Congress approved and President Abraham Lincoln signed into law the Morrill Act authorizing states to build institutions such as The Ohio State



U.S. Sen. Justin Morrill

University, Americans who went to college tended to be wealthy white men from urban areas, says Stephen Gavazzi, a professor in the university's Department of Human Sciences.

Many colleges had a religious affiliation or narrow trade focus, adds Gavazzi, who co-authored *Land-Grant Universities for the Future: Higher Education for the Public Good* with E. Gordon Gee, a former Ohio State president.

"People were going to become a preacher, a doctor or a lawyer,"

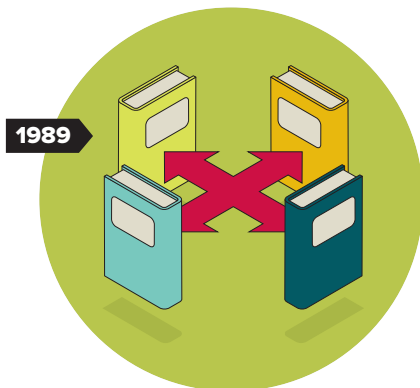
Gavazzi says. "Some women and African Americans were going, but they were the exception to the rule."

The Morrill acts of 1862 and 1890, both sponsored by U.S. Sen. Justin Morrill of Vermont, threw open the doors of higher learning to "the industrial classes," or what we now call the working class, Gavazzi says.

"The idea of opening up higher education to the industrial classes meant we were creating a pipeline to the American dream," he says. "This was about access and affordability." — **Mary Beth Lane**



TEST YOUR KNOWLEDGE OF OHIO STATE: This three-time Ohio governor signed the Cannon Act in 1870, establishing the Ohio Agricultural and Mechanical College (which soon became The Ohio State University). **See answers page 84.**



1989

Widening access

In November 1989, Ohio State staff joined an innovative project of Big Ten librarians to reduce the cost of sharing library materials, adapting fax technology to communicate through computer networks. Ohio State continues to improve technology access with an eye to reducing costs. CarmenBooks offers digital textbooks to students at a fraction of the cost of print formats. Digital Unions in Columbus provide free access to recording booths and 3D printers. And Ohio State's Disability Services widens access through a robust range of top-flight assistive technology, from Livescribe Smartpens to accessible media.



2003

Distance and digital learning

The university's first online degree program was the Master of Science in Welding Engineering, approved in April 2003. Carmen, Ohio State's learning management system, went live in 2005 with online course materials and underwent updates in 2017. Seven years ago, the Office of Distance Education and eLearning was created; in 2014, the department partnered with the College of Arts and Sciences to create online sections of a number of popular general education courses. Today, nearly one-third of Ohio State's students engage in at least one online course every term.



2018

Mobile devices and apps

Ohio State's Digital Flagship initiative blends learning technology throughout students' journeys. Since 2018, all incoming first-year students (more than 11,000, on all six campuses) receive technology kits that include an iPad, smart keyboard and Apple Pencil. Ohio State also offers a suite of free mobile apps, including the Ohio State app, which features that student's class schedule, interactive walking and transit maps, grades and more. Ohio State's Discover app acclimates new students with tools such as class reminders. The university will add a mental health and wellness app this year.

SESQUICENTENNIAL SCHOLAR

LAW STUDENT EMPOWERS AND INSPIRES

GROWING UP IN HARLEM, NEW YORK, LeRoy Ricksy Jr. '18 dreamed of playing football for the Buckeyes. As he got older, his aspirations steered him down a different path, though his destination remained Ohio State. "Being accepted on a full-ride scholarship to my dream school [as a Morrill Scholars Program Distinction Scholarship recipient] was the best thing to happen to



me," says Ricksy, who earned a degree in criminology and now is enrolled in the Moritz College of Law. "My experience and time at Ohio State have been nothing short of life changing."

Ohio State's community and culture helped Ricksy discover and pursue his passions, including working to help young people realize their own educational goals.

Ricksy connected with students through Ohio State's Diversity Ambassador program, goBuckeye Day and Multicultural Breakfast. And he was a site leader for the Office of Student Life's Social Change department, where he helped develop two programs:

A Day in the Life of a Buckeye and Mentor-A-Buckeye. Through these, he's worked with more than 500 high school students from urban and Appalachian areas to help them blaze their own trails to higher education.

"My passion and interest lie in educating, assisting and empowering others," says Ricksy, who also has been involved with the SPHINX Senior Class Honorary and the Bell National Resource Center on the African American Male. "I am excited to watch as Ohio State continues on its journey of empowering and inspiring the state of Ohio and community at large." — **Ross Bishoff**



150
1870
2020

**FOREVER
EXPLORING**

We create and apply knowledge to learn from the lessons of yesterday, improve the world today and forge limitless possibilities for tomorrow.





During a “walk audit” with Age-Friendly Columbus, residents demonstrate the challenges they face getting around the city. That information helps build more accessible communities.



Software engineer Paul Linville '18 is at work inside the Smart Columbus Experience Center downtown.

SMART MOVES

Stories by Bob Beasley

*Photos by Logan Wallace
and Jo McCulty*

By focusing on people, a partnership involving Columbus and all 15 Ohio State colleges is defining what it means to be a smart city and campus in the 21st century and beyond. Designed to serve as a model for the nation, the project illustrates how we can mine data and drive technology to improve lives.



Three years ago, Daniel Sinclair wouldn't have thought twice about crossing the street. But a stroke slowed life down, and now the 77-year-old needs 38 seconds and the help of a cane to cross four lanes.

The world doesn't always have that kind of patience. Recovering from a stroke "opened my eyes to a lot of things," Sinclair says. "I had not paid attention to any of this stuff."

He's chatting inside Blackburn Community Center, where about 20 people have returned from a drizzly walk in Columbus' Olde Towne East neighborhood. They've gathered to show researchers with Age-Friendly Columbus and Franklin County what it's like to traverse cracked sidewalks and unforgiving traffic when you can't see, or when your particular body isn't what the world is designed to accommodate.

The words "smart city" often conjure images of driverless cars zipping down the highway and drones plopping packages on your doorstep. And while that's not wrong, being "smart" is much more — it's about applying what you know to make the world operate more effectively and efficiently. It includes, for example, timing how long it takes people like Sinclair to cross the street — and then adjusting the traffic signal.

"When we talk about 'smart initiatives' and technology, we need to be sure we are focusing on the end user," says Katie White '07, director of Age-Friendly Columbus, a community collaboration housed in Ohio State's College of Social Work. "What Age-Friendly does is start with that end user."

In 2016, Columbus beat out 77 other cities to win the U.S. Department of Transportation's Smart City Challenge, a contest to identify and learn from the U.S. city with the best plan for using technology, data and applications to move people and goods cheaply and efficiently. With this came a \$50 million federal grant and the birth of Smart Columbus.

As the primary research partner for Smart Columbus, Ohio State is at the forefront of finding smart solutions to improve our lives, from how we move and use energy to how we work and consume health care.

These projects truly aim to change lives. One, for instance, will collect data to see whether better access to transportation can cut infant mortality rates in Columbus neighborhoods where babies are dying at four times the national average.

Run by the team of Dr. Erinn Hade '12 PhD, a research assistant professor in Ohio State's Department of Biological Informatics, the prenatal trip assistance program will study hundreds of pregnant women from at-risk Columbus neighborhoods — through their pregnancies and eight weeks after birth — and offer expanded smart transportation services so women can get to places such as the doctor's office and grocery store.

Ohio State committed \$15 million to the Smart Columbus effort — \$2 million in cash and the rest as in-kind support.

While assisting the city, the university also is looking to transform its campuses into smart communities through an initiative called Smart@OhioState.

"The university has incredible assets and ambitions in the smart space — in mobility, teaching and learning, health and wellness, and energy and sustainability," says Smart Cities Relationship Director Courtney Falato '04, who leads the university project. "'Smart' means leveraging connected technology and data to improve the quality of life, exactly what we hope to achieve with Smart@OhioState."

Two obvious parts of the university's smart story are its Center for Automotive Research, where students and staff design electric and autonomous vehicles, and the Transportation Research Center, an Ohio State-managed test-track facility about 50 miles from the Columbus campus. The latter is the United States' largest independent vehicle test facility and automotive proving ground.

While those assets help drive Smart@OhioState, it encompasses much more. All 15 of the university's colleges have been engaged in the project, which aims to — among other goals — improve residents' mental and physical health while reducing resource consumption, neutralizing carbon emissions and minimizing waste. Importantly, it



works to groom students into knowledgeable consumers and innovators in a smart world.

“The university is already transforming through smart technologies: Faculty leverage technology in teaching, our Ohio State app has real-time arrival data for buses, our medical center has a bedside app to better engage patients,” Falato says. “Yet there is still more we can do. Smart@OhioState’s ambition is to transform our statewide university into a living laboratory for connected technology and create more livable, sustainable and socially just communities.

“That is powerful. That is big.”



This all starts with data, says Maryn Weimer, Ohio State’s director of mobility. She oversees the research aimed at solving mobility challenges on campus in a smart way.

“Instead of jumping to solutions and technology deployments across campus,” Weimer says, “we are focusing on collecting and analyzing our many, many data sources to truly understand mobility challenges.”

In other words, you can’t put the cart before the horse. All the data that’s being compiled and analyzed in spreadsheets today will be the basis for the Ohio State campuses of tomorrow. Along the way, the university will deploy new technologies, innovate with

forward-thinking industry partners and provide unparalleled research opportunities for students.

The Smart Campus student group formed in 2017 is among the early leaders. Its president, Danny Freudiger, a doctoral student in mechanical engineering, says students are increasingly involved in how data and technology can change lives.

In its short existence, the group has worked with a senior-living facility to increase residents’ confidence in using app-based services such as Uber and Kroger ClickList and is helping to develop a similar system for patient courtesy shuttles on the medical campus.

They’re also partnering with another student organization, Food Recovery Network, which collects and diverts unused, unexpired food from campus dining halls to local food pantries.

“Our goal is to help them scale this effort through a technology platform and also do something meaningful with the data-collection side of it,” Freudiger says. Ultimately, he adds, it’s about making sure the food ends up on someone’s plate.

“A lot of talk around smart cities is around the data and technology,” he says, “but it’s the people who matter. This is an opportunity for us to make a difference and do something pretty special.”

Ohio’s first self-driving shuttles give tourists a look at downtown sights. (For now, the shuttles are still staffed by trained operators.)

» Continued on p. 45



YES, OHIO STATE IS BIG. HERE'S WHY THAT'S GREAT.

FIVE WAYS THE UNIVERSITY leverages its size, diversity and land-grant mission to advance the world and solve the problems of today and tomorrow. — **SUZANNE HOHOLIK '14 MBOE** ✳



Food Innovation Center

Foodborne illnesses. Famine. Food deserts. These are big problems, but not too big for the Food Innovation Center. The center connects hundreds of experts from 19 Ohio State colleges and units to discover new ways to feed Ohio and the world. This unparalleled collaboration of researchers puts the university at the forefront of improving food quality and safety.

Esports major

Companies of all kinds need more graduates skilled in gaming technology. Ohio State took action. Five colleges, the Department of Athletics and Student Life together created a new degree, a bachelor of science in esports, in just two years. Only Ohio State could respond so quickly to industry needs, says Deb Grzybowski '79, '82 MS, '00 PhD, co-director of game studies and esports curriculum development. "Who else could have all of these colleges and researchers work together to do this?"

Infectious Diseases Institute

Scientists and researchers with the Infectious Diseases Institute imagined the unimaginable: a fungal disease destroying the world's wheat crop within two seasons. Together, Buckeyes are working to discover and fight a plague before it happens. Through the efforts of physicians, veterinarians, entomologists and other experts representing disciplines across 14 colleges, the institute solves worldwide problems others consider overwhelming.

Zika vaccine development

When the Zika virus emerged in 2016, the urgency to find a cure was felt worldwide. Images of babies with birth defects propelled Ohio State researchers across diverse disciplines — animal science, virology and immunology — to find a vaccine. In just two years, they developed a two-dose method that proved effective — a quick result thanks to collaboration, says Professor Shan-Lu Liu, MD, who directs the Infectious Diseases Institute's viruses and emerging pathogens program.

Scarlet and Gray Financial

What's the difference between credit cards and debit cards? What's a budget? How should I approach loan debt? In surveys of students at 100 universities and colleges, Ohio State researchers found many are clueless about consumer finance. The research prompted cross-campus collaboration to create a Buckeye financial-wellness program that has become a national model. Students can access peer-coaching, financial-planning and debt-awareness services.

» Continued from p. 43



People are at the center of Katie White's work, which is why Age-Friendly collaborated with Smart@Ohio State. She and her team have spent the past few years listening to the concerns of more than 1,000 older adults in central Ohio.

Part of an international movement of age-friendly communities under a World Health Organization umbrella, their program is in the fourth year of a five-year effort that involves collecting and using data to make smart improvements in the community.

"Looking at dignity and worth of the individual, accessibility, equitability — all of those mainstays of the College of Social Work pair perfectly with what we're doing," she says.

Through surveys, focus groups and audits such as the one on that rainy day in Olde Towne East, White's team examines where residents have difficulty getting around, both behind the wheel and on foot. To improve their mobility, she says, Age-Friendly is planning a collaboration with a major ridesharing service to provide safer transportation options. The program is working with another partner to implement a bus loop service in the Hilltop neighborhood.

White also works to bridge the needs of the community's older generations with the aspirations of young residents. Over the winter, she taught a course called Change Agents at Metro Early College High School in Columbus. The course, for middle school students at the STEM-focused school, explored such topics as ageism and the design of apps with older adults in mind.



With all this data comes privacy concerns. That's where Ohio State's Moritz College of Law and Translational Data Analytics Institute step in.

"Smart" means you use data to solve problems," says Dennis Hirsch, law professor and director of Moritz's Program on Data and Governance. "Any smart city is going to use a lot of data, including data about people ... and that, of course, raises privacy issues."

Getting the data piece right is essential to the success of Smart Columbus. If people get nervous about how their personal data is being used, Hirsch says, they might resist an effort that's meant to improve their lives.

That's why his program received the first grant from Ohio State's \$2 million cash contribution to help draft the Smart Columbus Data Privacy Plan and thus address possible privacy pitfalls before they become issues.

"Smart Columbus is at the forefront of this," Hirsch says. "Our data privacy plan is state of the art. It will provide a model for other cities and, in that way, Ohio State and Smart Columbus will be able to influence the shape of privacy in smart cities for years to come." * ❖

BOB BEASLEY '94 is a freelance writer living in Powell, Ohio.
LORI KURTZMAN contributed to this story.



Decades before self-driving cars hit the highways, Professor Robert Fenton (above) was pioneering research into autonomous vehicles.



TAKING THE LEAD IN SELF-DRIVING CARS

WITH AUTONOMOUS VEHICLES already on the road, you might soon find yourself riding in the backseat of one. But did you know an Ohio State professor led some of the earliest research on self-driving cars and used the roads of Columbus as his test track?

Robert Fenton, '57, '60 MS, '65 PhD, a professor emeritus of electrical and computer engineering, spent a lot of time in the mid-1960s and early 1970s testing his cars on unfinished portions of Interstates 70 and 270 as well as on Sawmill Road, a once-sleepy farm lane that's now a major Columbus artery.

"At the time," Fenton says, "our work was probably the most advanced in the world. Very few people were doing it."

Fenton and his team placed a guide wire down the center of the roadway and ran current through it, creating a magnetic field that enabled their control of the cars. The first car was a 1965 Plymouth sedan modified with sensors and other instrumentation developed at Ohio State.

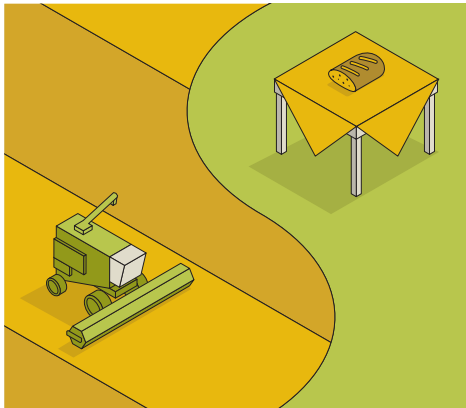
"It worked beautifully," he says. "We were automatically steering at speeds up to 85 mph."

Unfortunately, the cost of the guide wire approach was too high to maintain on a large scale. To solve for that in later iterations, he says, the team bounced signals off guardrails and placed side-radar sensors on the car to keep it on track.

The pioneering research of Fenton and others involved in traffic projects at Ohio State led to development of the Transportation Research Center in East Liberty, Ohio, in the 1970s. In July, the TRC broke ground on its SMARTCenter, which will be the largest real-world testing site for automated vehicles.

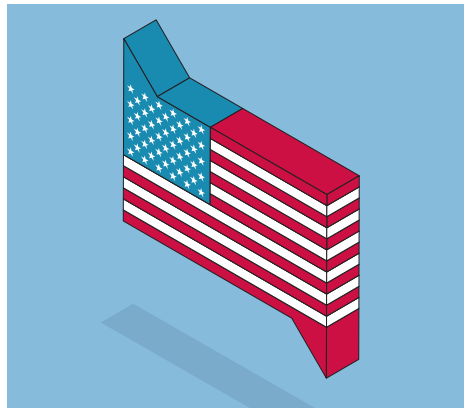
What does the future hold?

ON TOPICS RANGING from politics to drugs to soil, we asked Ohio State experts what to expect in their fields of study in the years to come. Here's what they said. — **LORI KURTZMAN** ✨



Jill Clark '95, PhD '09
ASSOCIATE PROFESSOR, JOHN GLENN
COLLEGE OF PUBLIC AFFAIRS

“The future of the food system is one of civic engagement. Classifications like ‘producer’ and ‘consumer’ will no longer limit our spheres of concern. It will be a new age of ‘food citizenship,’ where we collaborate together to leverage this shared system to foster community change and bridge urban-rural divides.”



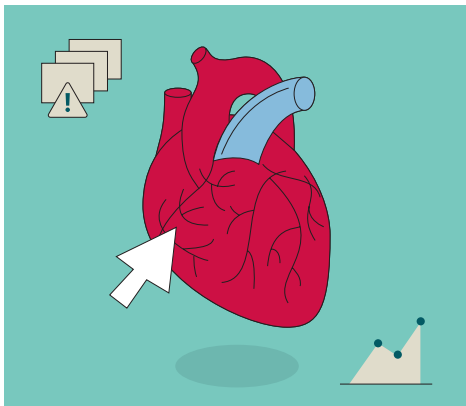
Michael Neblo
PROFESSOR, DEPARTMENT
OF POLITICAL SCIENCE

“Substance and civility in politics seem to have taken a sharp turn for the worse. Remember, though, that debates on the floor of Congress used to end in brawls, beatings and duels. With hard work and goodwill we can — and will — renew our political discourse once again.”



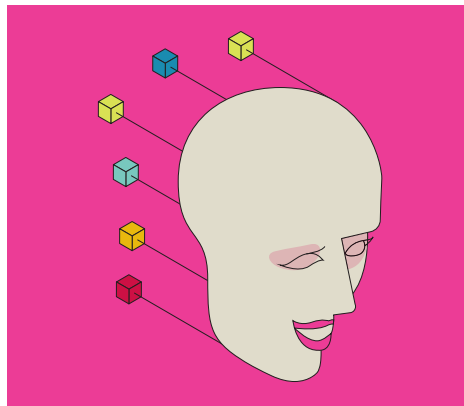
Yune Lee
ASSISTANT PROFESSOR, DEPARTMENT
OF SPEECH AND HEARING SCIENCE

“The marvelous power of music remains elusive. However, modern neuroscience has begun to understand how music acts upon the human mind and body, such as the positive influence of music training on speech and language. Future neuroscience will bring us closer to the day when music can be formally prescribed to cure disease and improve life quality.”



Quinn Capers '91 MD
INTERVENTIONAL CARDIOLOGIST, ASSOCIATE
DEAN OF ADMISSIONS, COLLEGE OF MEDICINE

“Interventional cardiologists will treat patients suffering from heart attacks, blocked arteries and heart valve abnormalities and discharge them within a day or two. In the future, we will implant stents that dissolve, perform procedures remotely with the assistance of a computer and repair multiple heart valves in one setting. Stay tuned!”



Alex Martinez
PROFESSOR, DEPARTMENT OF ELECTRICAL
AND COMPUTER ENGINEERING

“We are at the dawn of a new revolution: artificial intelligence (AI). In the next 10 to 20 years, robots that can interact with humans in a natural way will become commonplace. Self-driving cars will change the way we commute. AI will radically transform the way we perform our jobs and care for our families. But do not expect to lose your job; AI will be a major job creator.”



David Nagib
ASSISTANT PROFESSOR, DEPARTMENT
OF CHEMISTRY AND BIOCHEMISTRY

“The future of drug discovery is very exciting! Personalized medicines, gene therapies and reaching so-called undruggable targets are all on the horizon. Instead of searching for ‘magic bullets,’ the frontiers of chemistry and medicine are now dedicated to finding tailored solutions to tackle rare diseases, individual gene mutations and resistance to super-drugs.”

Illustrations: Thomas Porostocky; photos: Jo McCully (May), courtesy of Eileen McSaveney (Antarctica)



17 Look back, 50 years later. A symposium will mark the milestone. go.osu.edu/arcticquest

They braved an icy reception

IN 1969, UNDERGRADUATE TERRY TICKHILL TERRELL '71, then 19, joined three other Ohio State scientists in a history-making journey as the first all-female research team in Antarctica. They are, from left: entomologist Kay Lindsay '68 MS; Terrell, a chemistry major; geochemist and team lead Lois Jones '55, '59 MS, '69 PhD; and geologist Eileen McSaveney '71 MS, '76 PhD. The field work in rocky, bitterly cold conditions was challenging, and many expected the women to fail. One man told them they wouldn't make it through snow school. Then they logged four unforgettable months on the continent. "When I left Antarctica," Terrell says, "I cried." ✳

SESQUICENTENNIAL SCHOLAR

WORLD TRAVELER LOOKS TO LINKAGES FOR INSPIRATION

ERIC MAY HAS TRAVELED THE GLOBE. But when it came to continuing his education, the U.S. Army veteran had one destination in mind: Ohio State.

As an Ohio native with an engineering background, May was eager to join the entrepreneurial community in Columbus.

"It's a rewarding experience to help others make connections



and achieve their dreams," says May, who was selected for the Sesquicentennial Student Scholar Leadership Program. "I want to see people succeed."

A software engineer, May arrived as an MBA student in Fisher College of Business after an Army career in which he deployed to Iraq, South Korea and Hawaii. He also spent time as an engineering ambassador while pursuing his undergraduate degree, and he has traveled to 15 countries as a result of his service and personal excursions, including backpacking trips through Europe.

May uses his experience to help others, including mentoring future engineers through events such as Hack OHIO — Ohio State's largest hackathon in which more than 750 undergrad and graduate students spend a weekend designing projects for tech companies. He's also involved in Columbus' biannual Startup Weekends, during which participants take ideas from concept to prototyping and validation to funding.

"For me," May says, "it comes down to building up and making my own community better, like Ohio State has done for the last 150 years." — **Ross Bishoff**



Adapting to an evolving world

Ohio State researchers teamed up with local experts to get ahead of the rising risks of climate change.



Construction projects such as Ohio State's Cannon Drive relocation are designed to mitigate the flooding dangers posed by climate change.



**REVIEW
THE PLAN**
byrd.osu.edu/
Columbus

COLUMBUS IS BETTER EQUIPPED TO ADAPT to the effects of climate change following a sweeping effort by Ohio State researchers working at the intersection of science and public policy.

Researchers at the Byrd Polar and Climate Research Center collaborated with local stakeholders and technical experts to develop a plan that outlines recommendations for adapting to extreme heat, deteriorating air and water quality, flooding and other changes already occurring and likely to intensify with climate change. The report also addresses considerations for emergency preparedness and protecting vulnerable populations.

The university presented the finalized Columbus Climate Adaptation Plan to Columbus City Council and Mayor Andrew Ginther in late 2018. Its recommendations fall into two categories: necessary and aspirational.

“The ‘necessary’ recommendations are the bare minimum the city should do,” says Jason Cervene ‘00, ’01 M.Ed, education and outreach director for the Byrd Center and task force chair.

These include creating more locations where people can find refuge from extreme heat, modernizing the electric grid and improving education about the need to minimize activities that contribute to some of climate change’s most pressing side effects. The task force also recommends Columbus assess its stormwater infrastructure, regulations and technical documents as well as make changes to decrease the risk of localized flooding.

“While the city will need to decide how to address each of the actions recommended in the document,” Cervene says, “we believe it’s important to empower citizens, while there is time to act, with knowledge of the climate change impacts that experts agree are likely to occur.”

The recommendations build upon a 2016 report developed through a collaboration of Ohio State, the City of Columbus and the National Oceanic and Atmospheric Administration’s Great Lakes Integrated Sciences and Assessment team.

The earlier report showed that average annual temperatures in Columbus rose by 2.3 degrees Fahrenheit from 1951 through 2012 — higher than both national and global averages. At the same time, Columbus precipitation totals have risen nearly 20 percent, and heavy storms are happening more than 30 percent more frequently.

Central Ohio is likely to see increasing temperatures — especially at night — along with flash-flooding and deteriorated water quality in coming decades, according to the task force. The biggest risks come from warmer conditions and more varied precipitation, with an increased likelihood of property damage and public health threats disproportionately affecting vulnerable populations.

Alana Shockey ’06, the city’s assistant director of sustainability, praised the work spearheaded by Ohio State experts. “Jason and his team created something that had never been done before,” she says. “The result is a climate adaptation plan that is going to be the foundation of our plans going forward.” — **LAURA ARENSCHIED** ✨

Aaron Marshall ’15 MA contributed to this report.



TEST YOUR KNOWLEDGE OF OHIO STATE: What major 20th-century project involved a research team at Ohio State? **See answers page 84.**

‘What’s your major?’

THE ANSWER TO THAT QUESTION is getting a lot more interesting, as Ohio State students increasingly craft custom interdisciplinary degrees to fit their life and career goals. Here are just a few who have blended their passions to create unique paths of study. — **LORI KURTZMAN AND ROSS BISHOFF** ✨



Anna Voelker '18
SCIENCE COMMUNICATION AND ACCESSIBILITY

“This major changed the course of my life. I was able to focus on exactly what I wanted to be. I dream of a world in which educational accessibility is second nature. I want to combat misconceptions regarding who can be a scientist by sharing information and the many innovative ways in which science can be done. At the end of the day, my message is simple: If science is important to you, then you have the potential to be important to science.”



Bailey Maholm '19
MULTIDISCIPLINARY ASPECTS OF THE PERFORMING ARTS AND LITERATURE

“I wanted to integrate the performing arts into literature and education, because I believed that it would set me up for success in pursuing my graduate degree of theatre education and applied theatre. Designing my own path meant that I had the ability to lay out a road to success. It meant I would be able to someday inspire young minds to create social change and to feel truly supported by their teachers and their communities.”



Emily Stuhldreher '19
SOCIAL ENTERPRISE

“Being able to design my own path has shaped my entire college experience. I came to Ohio State a psychology major. I knew I cared about social issues, but I was passionate about finding efficient and sustainable ways to tackle them. Social enterprise is the strategy of utilizing sustainable revenue models to tackle the largest social problems we face. Once I found out that I could build a personalized study program at Ohio State, I decided to pursue it.”

Nobel effort

SINCE 1901, THE NOBEL PRIZE has recognized extraordinary achievements in physics, chemistry, medicine, literature, peace and — starting in 1968 — economic sciences through a related award. Among the 935 global recipients? Four Buckeyes.



Paul Flory '31 MS, '34 PhD
1974, CHEMISTRY
Flory was lauded for his ability to find simple solutions to fundamental problems in the chemistry of plastics. As a graduate student at Ohio State, his interests turned to the physical chemistry that would define his career.



Kenneth G. Wilson
1982, PHYSICS
With family members who taught at esteemed universities, Wilson seemed destined for higher education. After his win for determining how to calculate when matter changes phases, Wilson joined Ohio State’s Department of Physics in 1988 and retired 20 years later.



William A. Fowler '33
1983, PHYSICS
Raised in Lima, Ohio, Fowler enrolled at Ohio State and paid his tuition by working Saturdays cutting ham and cheese at an outdoor Columbus market stall. His Nobel work was a bit more sophisticated — studying the nuclear reactions in a star’s evolution.



Rattan Lal '68 PhD
2007, PEACE
This Ohio State professor of soil science was a member of the Intergovernmental Panel on Climate Change that shared the prize with Al Gore. In 2019, Lal brought home the prestigious Japan Prize, which recognizes those whose work promotes peace and prosperity for mankind.



150
1870
2020

INVESTING IN PEOPLE

We believe in the power of people, as individuals and mighty collectives, and we are steadfast in our mission to help them build a vibrant future.





Buck-I-SERV participant Lauren Dietz, center, is a favorite duck-duck-goose choice for Emily, 4, at Pathways Early Education Center in Immokalee, Florida.



Kareem Muakkassa gets a smile from 1-year-old Nova at Pathways, which Buck-I-SERV assists three times a year.

A GOOD LIFE SHARED

Story by Ross Bishoff

Photos by Logan Wallace

Ohio State students and alumni have made the Buck-I-SERV alternative break program a gift to communities in need and an example for others to follow. Journey to Florida with a recent contingent of students to see how these efforts brought joy to their young charges.



Kayleigh Benson and Cal Wible '49, '50 MBA are huddled in a booth at a south Florida restaurant, discussing a topic each views as a life purpose: helping others.



Cal Wible, left, and Kayleigh Benson compare notes about their connections to Buck-I-SERV.

Benson, a senior social work major at Ohio State, has made a long mid-December bus ride from Columbus with Buck-I-SERV, an Office of Student Life alternative break program that engages students in community service. Wible is the guy who has poured his heart into the program.

Now, at a dinner the Alumni Club of Naples is hosting for the Buck-I-SERV students, Benson wants to know why. Astute and energetic at 90 years old, Wible has a simple answer: "I've had a good ride, so I've gotta pay my dues."

It's a mantra that has guided him through a life of

service at home and abroad — from student organizations at Ohio State to community involvement in northeast Ohio through an active retirement in Naples. And when there's an opportunity to encourage others to follow suit, Wible welcomes it.

In 2008, an Ohio State representative asked him if he would be interested in providing support for an area to assist students in the new Ohio Union.

"That wasn't quite a fit for me, but she mentioned students were on an alternative break trip with Habitat for Humanity," Wible says. At the time, he was in the midst of a 20-year stint as a volunteer with the nonprofit homebuilding group in Collier County, Florida. "Right there, she had me.

"I told them we needed to change the name, though. Alternative Spring Break Program was just too long for any kind of sale." And, you see, Wible knows how to make a sale: He owned a successful Pontiac dealership in Medina, Ohio, for years.

After a student contest he initiated failed to deliver a name that stuck, Wible proposed Buck-I-SERV, adapted from an event name he admired.

Maybe it was the new name. Maybe it was better organization. Maybe it was the enthusiastic involvement of Ohio State colleges, alumni clubs and student organizations. But since Wible got involved a decade ago, the program has grown exponentially.

What started as a single trip of about 35 students to New York City in 2003 had reached 250 participants by 2008. Now, an average of 1,200 students make about 90 trips to almost 20 states and five countries in a single year. More than 10,000 students have participated since the program's inception.

"That's a lot of people," Benson says. "The program is working."



Ohio State junior Ryan Welch steers a van of fellow students through Immokalee, Florida, about 30 minutes northeast of Naples. Pathways staff say more than 40 percent of the population here lives in poverty, and a number of children lack regular meals, health care checkups, daily supervision and education. Many residents speak Spanish as their first language.

Buck-I-SERV volunteers began visiting in spring 2009, making it one of the program's longest-standing destinations. Students come three times each year. On recent trips, they've helped at the Pathways Early Education Center, where they play with the children and assist the staff with daily tasks. On the December trip, students helped prepare for Christmas activities at the school.

Dillon Welch, left, plays a game with youngsters at Pathways, where a majority of families served live at or below poverty levels.



Welch is navigating the streets with the help of Pathways teacher Cynthia Rodriguez. “It only takes about 15 minutes to drive through town,” she says. People generally walk or ride bikes, because few own cars.

Rodriguez, the daughter of Mexican immigrants, is a recent graduate of Florida Gulf Coast University. Education has been the key to a better life for her family, she says.

“I didn’t have a typical childhood. We were always in the fields. School was my free time.”

There’s no mall or shopping center in town. Blue tarps protect the roofs of many houses the van passes, a reminder of the path of destruction and flooding that Hurricane Irma wrought in 2017.

It’s an eye-opening tour for the Buck-I-SERV students, who have spent the week at Pathways surrounded by the joyful children of families that occupy these homes.

“These kids are happy, they’re clean, they’re ready to go,” says Kareem Muakkassa, a freshman neuroscience major from Akron. “And Cynthia tells us there are three families living in a trailer.”

Pathways was born in a washhouse 55 years ago to provide care for babies while their parents went to work.

“Service like this is going to be a lifestyle for us now because you see the direct impact you have on a community.”

— Student Dillon Welch, who has made three Buck-I-SERV trips

Today, children spend most of their time and eat most of their meals at the school while their parents work in factories or fields.

“We’re coming here, doing this service, and that’s great. But we go home. This is their life,” says freshman Lauren Dietz of Dayton, who also majors in neuroscience. “That’s why I’m so passionate about education: It’s the pathway to anything in the world.”

“This education center is so important to these kids,” she adds. “You can tell their parents care. They’re setting them on the right path.”



A MOTTO FOR THE AGES

A proposed coat of arms for Ohio State was on the agenda for the Board of Trustees on November 5, 1938. The design by engineering professor Thomas French incorporated elements of the university's original seal — including a flame atop a pyramid containing the words “letters,” “science,” “arts,” “agriculture” and “knowledge”— and a new motto: “Disciplina in civitatem.”

The trustees approved the design and thanked French for his “splendid contribution.”

Recently retired Ohio State President George W. Rightmire had selected the motto, with classics professor John Hough supplying the Latin translation of “education for citizenship.”

A few months later, in a letter to French reprinted in *The Lantern*, Rightmire wrote that “no motto could be more happily adopted by an institution of learning drawing its support from the state.”

The former president acknowledged that the university could do better in providing an education to produce citizens “with a certain consciousness and appreciation” for the public good.

With the country just beginning to emerge from the Great Depression, Rightmire was blunt in pointing out how a “gullible” citizenry had failed to “read the signs of the times, portending economic and social disaster.”

He called for the university to set up a plan to educate students on “the nature of our government and the responsibilities thereunder of each citizen for its maintenance, improvement and realization in the affairs of everyday life.” Such a curriculum, he believed, was “by all the signs of our times an imperative necessity.”

“Democratic government is in the balance,” Rightmire wrote. “The motto is a clarion call to a lapsed responsibility!”

Today, civic engagement is a core principle in academic centers such as the John Glenn College of Public Affairs and in curricular and community service activities across the university. It seems Rightmire would be pleased that “education for citizenship” continues to define Buckeyes around the globe. — **Lynne M. Bonenberger '87 MA**



1



2

Dietz and the other Buck-I-SERV participants chose this trip because it addresses issues they care about: education, poverty, inequality and hunger.

“For three weeks a year, Pathways has a lot of hands-on help, and that’s a great benefit,” says Susan Ignelzi ’74, ’80 PhD, who serves on the boards of both Pathways and the Alumni Club of Naples. “This gives Ohio State students broad experiences to do great things to help people.

“We hope they leave having a broader understanding of this community and what it does for all of us every day.”



Welch maneuvers more than just the van for Buck-I-SERV. He and his twin brother, Dillon, were team leaders for the trip, and they’ve been on a pair of other Buck-I-SERV ventures in other states.

“Any trip you go on, it’s going to be a great experience,” says Dillon Welch, who like his brother is a junior biology major considering medical school. “Service like this is going to be a lifestyle for us now because you see the



TEST YOUR KNOWLEDGE OF OHIO STATE: An educational program that now serves 6 million-plus young people nationwide was the brainchild of Ohio State’s first superintendent of agricultural extension. Name the individual and group. **See answers page 84.**



3

1 Four-year-old Hadassa and student Kayleigh Benson team up in a game of hide and seek at the Pathways Early Education Center in southern Florida.

2 Dalila, 4, and her classmates take part in an outdoor game with Buck-I-SERV students on the Pathways playground.

3 Dillon Welch (left), Jessica Zimmer and Kareem Muakkassa clean up after dinner one night at a retreat center where they stayed during their service week.

direct impact you have on a community.”

Ohio State is not alone in offering alternative break service trips, but in 2013–14, Buck-I-SERV became the first program to exceed 1,000 participants in a single year, according to Break Away, which promotes the development of such efforts. Wible believes Buck-I-SERV has raised the bar, inspiring organizers at other schools to strive higher.

“When I first got involved, my vision was only ‘What can we do to get Ohio State students to help those who need it?’ But I had tunnel vision,” he says. “We are motivating other universities to be more active, which should motivate us to be more active.”

Kierra Edwards ’18, a graduate student in early childhood education and a team advisor in Immokalee, was working in the Buck-I-SERV office in 2018 when members of another alternative break program visited to seek advice about expanding their efforts.

“I hope it continues to catch on and more schools in

more states get involved,” Edwards says. “It could really be monumental.”

In the end, Wible’s grand vision boils down to an individual’s desire to help wherever that help is needed. “How can you ever measure what we’ve done?” he says. “I’ll never live to see how big it can get, but the potential is large.”

Of course, it will be up to future generations to carry Buck-I-SERV forward, inspired by Wible’s example.

“When we left the restaurant after the alumni dinner, he said, ‘It’s a good life,’” Benson says. “That stuck with me. I’ve been thinking about all the things I’ve done and still get to do to help other people and have that fullness in my heart. I’m looking forward to living that good life he talks about.” ✨

ROSS BISHOFF is a writer and **LOGAN WALLACE** is a photographer for Ohio State. They traveled to Immokalee, Florida, to document this Buck-I-SERV trip.



Ohio State students and community members install the roof of a rain-water harvesting tank at the primary school in Leserwei, Tanzania.



Meeting the world's challenges

Ohio State researchers and students are solving large-scale problems to improve the world around us. Here are a handful of examples.

BY LAURA NEWPOFF

SUSTAINABILITY

Your next pair of winter boots may come from rubber grown in Ohio if Katrina Cornish has her way. An authority on the production of alternate natural rubber, she has discovered a way to make the material from the hydroponic farming of dandelions, a crop she calls “Buckeye Gold.” The process would halt the destruction of millions of acres of rain forests so rubber trees can be planted in southeast Asia.

“Many big companies have signed on to the idea that if the rubber comes from any new deforestation, they don’t want it. Demand is going up, so we have to be able to farm it,” says Cornish, an Ohio Research

Scholar, endowed chair and professor in the College of Food, Agricultural and Environmental Sciences.

Cornish also calls for sustainable rubber farms on millions of acres across the United States, good news for makers of the 50,000 products that contain the material.

WATER QUALITY

Try to picture how dire living conditions can be for those with no access to clean water. The plight of countless African villagers far exceeds what you could imagine, says Martin Kress, executive director of the Global Water Institute at Ohio State.

“We have a list of 5,000 Tanzanian villages that haven’t had water for three to five years,” Kress says. “They have to walk endlessly to find water, most often contaminated.”

Now, lives are being transformed through the institute’s Sustainable Village Water Systems Program, which involves faculty and students from eight colleges across the university. The project is working with 40 villages to secure clean water by replacing broken wells that serve more than 120,000 Tanzanians. Organizers hope to expand to 125 villages and address additional concerns such as sanitation and renewable energy.

“With sustainable access to water, we address basic needs, improve health and can teach people how to farm,” Kress says. “Before, they could scarcely grow maize. Now they grow cabbages, tomatoes, onions and sweet potatoes. This increases nutritional value for kids and creates economic opportunities for moms and dads.”

REFUGEE EDUCATION

Just 10 percent of refugees 14 to 19 years old who enter the United States pursue higher education. That’s because many of them lack the knowledge and confidence needed to navigate the process, says Hollie Nyseth Brehm, an associate professor of sociology.

Three years ago, Brehm and a group of students became mentors to refugees working to assimilate into their new community. Today, the group — now a nonprofit called Refuge — does much more. Twenty-five refugees and immigrants this year will benefit from weekly mentoring and an immersion experience that enables them to apply for scholarships, attend classes and access speakers, discussions and activities.

OPIOIDS

Ohio’s opioid crisis is devastating families and children who rely on the state’s strained child welfare system. Many counties also don’t have funding to deal with rising drug court caseloads, which prolongs family separation.

Ohio State’s Enhancing Permanency in Children and Families program is addressing the problem from several angles, says Bridget Freisthler, professor and associate dean for research in the

College of Social Work. Operating in partnership with children services agencies and professionals in Fairfield and Pickaway counties, the approach involves medication-assisted treatment that reduces the time children spend out of the home as well as a pipeline of peer recovery support mentors and services for caregivers.

The university also is a partner in an intervention program that provides trauma counseling to children and helps parents on their path to recovery. The work is saving and changing lives, Freisthler says.



Ohio State’s Global One Health team works with local partners in Ethiopia to vaccinate thousands of dogs each year and slow the spread of life-threatening rabies.

RABIES PREVENTION

Rabies is deadly for people who live in Africa and Asia. In Ethiopia alone, more than 1,500 children die each year after contracting the disease, mainly through dog bites.

To help communities control rabies, Ohio State’s Global One Health program is training professionals in-country as well as performing mass vaccinations, increasing education and developing surveillance and monitoring. More than 22,000 dogs have been vaccinated and 875 people have received training since the initiative began 10 years ago.

Executive Director Wondwossen Gebreyes, a professor in the College of Veterinary Medicine, attributes the success to the involvement of faculty and students from 13 colleges at Ohio State. ✨



From leaflets to #MeToo

AS THE UNIVERSITY PLANNED FOR

Ohio State’s 100th anniversary in 1970, brewing tensions prompted a very different story to ultimately dominate the headlines.

Years of unrest over racial issues, women’s rights and the Vietnam War culminated in campus riots that spring. At times, crowds grew so large and tensions so high that tear gas was used to disperse them. Administrators eventually closed the university for nearly two weeks.

The 1970 riots are noted most often, but student uprisings date back to our earliest days. In 1883, students angry about compulsory chapel services circulated leaflets and petitions criticizing the Board of Trustees. Over the years, students have agitated over mandatory military drills, housing issues, guest speaker restrictions and transparency in university investments.

In the early 1990s, faculty and students joined forces as the Women’s Grassroots Network to protest pay inequality and a lack of women in top posts. In recent years, students galvanized around #MeToo, with groups such as It’s On Us working to raise awareness about sexual violence.

Technology has provided a whole new way to organize in the decades since that seminal 1970s unrest. “In terms of tactics, social media has changed those tremendously,” says Larry Williamson Jr., director of the Office of Diversity and Inclusion at the Frank W. Hale Jr. Black Cultural Center. “Today, you can pull together a march in under 24 hours.”

— SHELLEY MANN ’03 ✨

Buckeyes in service

FROM ITS EARLIEST YEARS, Ohio State has had a deep connection with military education and service. Today, it is considered one of the nation's best universities for veterans. "Our programs have been successful in attracting, enrolling, supporting and getting military-connected students to graduation," says Mike Carrell, a retired Air Force colonel who leads the university's Office of Military and Veterans Services. "The Buckeye military family brings tremendous diversity to our daily experiences and conversations." — **JOE ARNOLD** ✪

1874

Ohio State's first recorded classes in military tactics and drill are held. Math and engineering professor Robert McFarland, a former Union officer, is the first tactics instructor.

1878

The military fife and drum corps that preceded The Ohio State University Marching Band performs for drills on campus.

1916

The Ohio Plan for Reserve Officers is co-authored by Ohio State leaders Col. George Converse and President William Oxley Thompson and alumni Gen. Edward Orton Jr. and Ralph D. Mershon. It outlines civilian training and calls for mandatory drills and courses for first- and second-year male students at land-grant institutions. It becomes part of the National Defense Act, which establishes ROTC.

1917

The War Department establishes schools of military aeronautics at six universities, including Ohio State, setting the foundation for aeronautical engineering courses.

1919

With an observance on the Oval to honor Ohio State's fallen war heroes, a century-old tradition — the Rock Ceremony — is born.

1929

Curtis LeMay earns a degree in civil engineering. He goes on to become a four-star general who commands the U.S. Air Forces in Europe and the Strategic Air Command.



1943

Former Buckeye All-American athlete Don Scott dies in a bomber crash in England while training for WWII. A university airfield is named in his honor.

1945–46

Ohio State adds Naval ROTC, followed by Air Force ROTC.

1947

G.I. Village, now Buckeye Village family housing, opens to accommodate an influx of male students after WWII. It expands a year later to house veterans and their families.

1952

Mershon Center for International Security Studies is established.

1958

The voluntary Coed Cadet Corps is formed, laying the groundwork for women to join ROTC units nationwide in 1973.

Ohio State's Armory, used for military science and physical education, is destroyed by fire.

1960

The university ends compulsory military education.

1967

Clotilde Bowen '43, '47 MD, the first African American woman to graduate from Ohio State's medical school, becomes the Army's first African American physician.

Maj. Robert H. Lawrence Jr. '65 PhD becomes the first African American astronaut.

1998

Lt. Col. Nancy J. Currie-Gregg '80 serves on the first shuttle mission to the International Space Station.

2011

Remembrance Park is dedicated to honor all Ohio State veterans.

2012

The Office of Military and Veterans Services opens, expanding services for veterans and military students.

2015

USA Today ranks Ohio State the nation's No. 1 university for veterans.

North Residential District buildings are named for service members.

2016

The POW-MIA Chair is dedicated in Ohio Stadium. The seat will always remain empty.

2018

John Murray '82 and Maryanne Miller '81 are promoted to four-star general. Murray leads the new U.S. Army Futures Command and Miller the Air Force Air Mobility Command.



Early achievers set high bar

TWENTY-FOUR STUDENTS turned out for the first day of classes at the Ohio Agricultural and Mechanical College on September 17, 1873. They found one building (the original University Hall, unfinished) and a campus in “very ragged condition,” one of them later wrote. Higher education in the United States was at a turning point. Land-grant colleges offered liberal and practical education for the working class, and people of all backgrounds were taking advantage of the opportunity. Ohio State’s first students included the sons of local tradespeople and immigrants as well as two daughters and a son of faculty member Norton Townshend, himself an immigrant. — **LYNNE M. BONENBERGER ’87 MA** ✳



Of the groundbreaking sisters, **Alice Townshend 1880** goes on to graduate. **Harriet Townshend** (above) did not earn a degree, but she served the university as a librarian for some 30 years. She remained an advocate of higher education for women until her death at age 92.



Mary F. Morrison 1879, who enrolled two years after the Townshend sisters, became Ohio State’s first female graduate. Morrison Tower is named in her honor.



Ferdinand Howald 1878 earned an advanced degree in 1881 and gained prominence in the mining industry. A savvy investor, he donated much of his art collection to the Columbus Museum of Art and endowed a scholarship for research students at Ohio State.



Curtis C. Howard 1878 also held degrees from Johns Hopkins University and the University of Berlin. A professor of chemistry and toxicology at Starling-Loving Medical College, a forerunner of Ohio State’s College of Medicine, he went on to serve as president of Century Chemical Co.



Two years after graduating, **John F. McFadden 1878** was elected president of the university’s first alumni organization. McFadden practiced law and then pursued a journalism career in Steubenville, Ohio. He was a force in the founding of Moritz College of Law.

SESQUICENTENNIAL SCHOLAR

MEDICAL STUDENT EMBRACES, BUILDS ON DIVERSITY

LONG BEFORE SHE EVER WALKED across the Oval, Melanie Russell ’15 was a Buckeye.

As a middle school student in Cleveland, Russell was selected for Ohio State’s Young Scholars Program, which helps high-achieving students with financial need reach their college goals. That initial introduction set a foundation for her to gain a bachelor’s degree from



the university and enter medical school here in 2017.

“I was amazed by the deep-rooted traditions, commitment to excellence and celebration of diversity Buckeyes cherish,” says Russell, now a third-year student in the College of Medicine chosen as a Sesquicentennial Student Scholar.

Russell is proud to be part of Ohio State’s ethnically and culturally diverse community and treasures the tradition of paying forward.

She aspires to be a physician in underserved communities, and the organizations she has been involved in support that goal. For Ohio State’s chapter of the Student National

Medical Association, she was the liaison to the Minority Association of Pre-Medical Students group, facilitating relationships between medical and pre-med students.

Russell also has served as director of the College of Medicine’s MD Camp, designed to give high schoolers from underrepresented backgrounds a window into health professions, and started an organization through which graduate students visit local schools to discuss breaking barriers.

“Being part of the Buckeye community has allowed me to be my authentic self [and] define the impact I wish to make on the world.” — **Ross Bishoff**



The Peace Corps put Linnae Bohar Fath and Kevin Fath on a path of service.

Peace Corps: a trusted channel for our service

Ohio State has been among the nation's top producers of volunteers for this organization that changes lives for the better.

BY GEMMA BUSH '18

SEVEN YEARS AGO, Kevin Fath '10 and Linnae Bohar Fath '07, '11 MS began their Peace Corps journey in Jamaica.

The Faths served in the Caribbean nation for two years, Kevin helping organic farmers to build their capacity and learn climate adaptation techniques and Linnae at a fish sanctuary that addresses overfishing.

They are among more than 1,880 Buckeyes who have served with the Peace Corps since its founding in 1961. Consistently one of the nation's top producers of Peace Corps volunteers, Ohio State ranks fifth among large schools in terms of volunteers this year, with 62 alumni serving worldwide.

Today, the Faths live in Mali, where Kevin is an agricultural development officer with USAID and Linnae works remotely as a senior operations specialist for the economic development organization ACDI/VOCA.

Here, they share insights about their time in the Peace Corps and the role Ohio State plays in fostering a culture of caring. ✨

What did you learn in the Peace Corps that has proven helpful in your career?

KEVIN: Sometimes you make the best plan possible and it will inevitably fall apart shortly after you start implementing it. You learn the importance of remaining flexible and open to change.

LINNAE: The need to ask better questions when looking at international development became apparent to me. It's important to be asking the people who live in these developing countries what they envision for their communities, because a lot of times they already have answers. We just help them get there.

How did Ohio State foster your interest in helping others?

LINNAE: I had the opportunity to study abroad at an agriculture institute in the Dominican Republic. Getting to spend time in a developing country helped reassure me that a career in international development was what I wanted to pursue. It's all about the opportunities that you're given at Ohio State.

KEVIN: Between participation in student organizations, help that's available from your professors and the great social network you can create for yourself, you have all kinds of support systems available to you at Ohio State.

What advice do you have for prospective Peace Corps volunteers or students considering service through similar organizations?

KEVIN: The way that serving in the Peace Corps will help inform how you see and understand the world is really profound. But there are going to be ups and downs, so go in with realistic expectations.

LINNAE: Every Peace Corps country has its pros and cons. For instance, Jamaica is a beautiful tropical island, but it's also a challenging work environment. I would go in with no expectations and an open mind.

Riding toward a cure

IN ITS FIRST DECADE, the annual Pelotonia cycling event in central Ohio has raised more than \$184 million for cancer research at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. “This speaks to the community’s engagement and belief in The James,” says Pelotonia President and CEO Doug Ulman. That community — comprising 8,470 riders and 3,056 volunteers in 2018 — includes thousands of Buckeyes. Here are the stories of a few. — **STEVE WARTENBERG** ✨



Members of Girls With Gears train for Pelotonia with a ride in central Ohio, where support for Ohio State cancer research is always on display.

The researcher

Every dollar raised by riders supports research at The James. “We’ve received funding for three Pelotonia Idea Grants that wouldn’t otherwise have been funded,” says **Sameek Roychowdhury ’98, ’04 PhD, ’06 MD**, an expert in targeted cancer treatment. Roychowdhury recalls that after riding 40 miles in 2011, he “went home and took a long nap.” He has ridden every year since, with his mileage climbing to 50, then 100, then 180 and last year to 200. As he pedals, he thanks his fellow riders for their commitment. “All those miles are accomplishing something important,” he says. “I see the impact every day.”

The volunteer

Shirley Jordan ’88 MSW has a good reason for volunteering with Pelotonia each year. She has been treated for thyroid cancer and colon cancer at The James and is doing well. “When I see all the riders with the names of the people they’re riding for written on their arms and legs and on ribbons, I get emotional,” she says. A few years ago, one participant noticed that Jordan was wearing a survivor’s pin and told her he would dedicate his ride to her. “I’m so moved by people’s kindness and generosity,” she says.

Girls With Gears

Lisa Hinson ’89 watched her husband, Alan, ride in the first Pelotonia. “It was a really emotional experience. I said, ‘I’d like to do this, but I don’t know this sport. We have to get some women together.’” Hinson and sorority sister **Mary Beth Cowardin ’91, ’01 MBA** formed Girls With Gears. “On our first training ride we went nine miles, wearing tennis shoes and T-shirts and carrying our Starbucks coffee,” Cowardin says. “We didn’t even know how to change gears.” The 100-plus members are now experienced cyclists. “No one rides alone, and we look out for each other,” Hinson says. “The friendships I formed with people I would have never met are bonds that will never be broken,” Cowardin says.

The survivor

Matt Hare ’06 was diagnosed with multiple myeloma, a type of blood cancer, shortly before the first Pelotonia. He underwent chemotherapy at The James, followed by a stem-cell transplant. He has been well enough to ride every year since 2010. “It’s a statement about how far I’ve come,” says Hare, whose cancer is incurable, but in remission. “I’ve been impacted by research, and for me it’s been a happy ending,” he says. “But there are so many people who don’t get that happy ending, and that’s why we’re on this mission — so my daughter [2-year-old Campbell] doesn’t have to know what cancer is like.”



150
1870
2020

BUILDING TOGETHER

We connect people, ideas and resources, creating inspiration and resilience with the communities we serve, whether next door or around the globe.



Dr. Sophia Tolliver '03, '04, '08 MPH, '15 MD visits with her patients Arma and Leroy Anderson during Healthy Community Day on the Near East Side of Columbus.



Hands-on experiments give Eastgate Elementary School students such as Javéon Woods enthusiasm for science.

A PACT FOR THE FUTURE

*Story by Mary Alice Casey
Photos by Jo McCulty*

The Near East Side of Columbus is home to 8,000 residents, two Ohio State medical facilities and a unique partnership involving the university, the city and the local housing authority that is bringing renewed vibrancy to this historic neighborhood.



East High School student Eshanti Milton and her dad, Earl, enjoy a game of chess on their updated front porch.

Earl Milton sees the sense of community growing on Columbus' Near East Side, where his home of 17 years sits midway between two bustling neighbors.

His neighborhood has seen many seasons. Affluent citizens built homes here in the late 1800s with the advent of street car lines east of downtown. In the 1920s and '30s, it boasted a rich cultural corridor and saw greater economic and racial diversity than other areas of the city. African Americans made up an increasing share of residents in the decades that followed, and segregation led them to rely on businesses and services close to home. In time, diminishing job prospects, urban flight and an interstate path that isolated the area took a toll in the form of declining population and shuttered storefronts.

Yet Milton and others who know this neighborhood well are seeing vitality return through the work of PACT, or Partners Achieving Community Transformation, and the enthusiasm and commitment of community members. Launched in 2010, PACT is led by Ohio State, which is working in partnership with the City of

Columbus and the Columbus Metropolitan Housing Authority to spur revitalization in this 800-acre area that is home to some 8,000 residents. Milton's home sits between The Ohio State University Wexner Medical Center's East Hospital and Outpatient Care East.

PACT's projects are wide-ranging, from replacing one of the country's first public housing projects — Poindexter Village, circa 1940 — with bright, modern townhomes to inspiring students from elementary through high school to consider medical careers, which they explore through ongoing relationships with Ohio State doctors, nurses and technicians.



One aspect of the initiative encourages university employees to purchase homes in the neighborhood, while another helps existing homeowners complete exterior home improvements. Milton benefited from the latter



program, which led to new siding, windows and porch railings as well as repairs to his pale yellow duplex with a handmade Ohio State bench in the yard. Through June, PACT had invested \$320,000 in improvements to 25 homes since the efforts started in 2017.

“Everybody in the neighborhood has stopped by,” Milton says. “It’s been a community meeting — all I was missing was cookies! It makes you feel better when you go down the street and the houses look nice and presentable. It gets *inviting*. We have more people moving into our community. It’s diverse, just the way it’s supposed to be.”

That’s also the case several blocks west near the home of Erin Prosser ’04 MCRP. She works for the university’s Planning, Architecture and Real Estate Office, and she and her boyfriend purchased their home in 2018 through the incentive program for Ohio State faculty and staff.

“Our street has been fantastic. We have a wide range of neighbors — families with small kids, which makes it fun; a neighbor next door who is an older woman; a family down the street that seems to keep an eye on everything. Everybody is extremely friendly and helpful. I came out one morning last winter and one of the neighbors had taken it upon himself to brush the snow off everyone’s car up and down the street.”

Prosser appreciates being close to downtown amenities such as the art museum and restaurants, but more than that, she welcomes the opportunity to be part of an eclectic neighborhood on the rise. The homeownership incentive program began in 2017 as well, and through June, the university had provided \$144,000 in assistance to leverage 18 home purchases exceeding \$2.5 million.

“It is a really special thing for the university to be encouraging faculty and staff to live in and around the university’s resources and be part of that fabric,” Prosser says. “I think it’s really amazing and important that the university takes it that seriously and wants to make that connection with communities on a neighbor-by-neighbor level.”



Autumn Glover ’07, ’11 MCRP, ’12 MA shepherds government and community relationships for East Hospital and has been instrumental in PACT from blueprint through present day. She can expound on any aspect of the partnership, but her pride is most evident when she describes the medical center’s presence here.

East Hospital stands tall in the neighborhood, both in stature (at 16 floors) and regard. It marked its 20th anniversary in April, and in 2020 will complete a \$26 million expansion and renovation providing new operating rooms, pre- and post-op spaces, imaging and patient reception areas.

“There is this kind of community connection that’s genuine and authentic,” Glover says. “People actually come to the East Hospital cafeteria like it’s a restaurant. We have people who come every morning for breakfast and bring their paper.”

At the other end of Taylor Avenue, Outpatient Care East opened in 2011 under PACT’s compact with the city and housing authority. It offers primary care and a range of specialties, and it collaborates with East Hospital on Healthy Community Day, held annually to provide free screenings, youth sports physicals, dental check-ups and other services via more than 50 collaborators.

“We also have the diabetes research home base at Outpatient Care East — that’s for the whole health system, all centered in this community setting,” Glover



says. “We really have done an intentional job in trying to be responsive to the kind of conditions people are experiencing in this community.”

Next up in terms of health care is a small center looking to make a big impact. Earlier this year, Wexner Medical Center purchased the former Columbus Metropolitan Library Martin Luther King Jr. branch, which moved up the street, to establish a Healthy Community Center. In addition to an emphasis on decreasing obesity, heart disease, diabetes and cancer, community members expressed hopes for a demonstration kitchen to host cooking classes and nutrition counseling along with a café that serves healthful foods.

Neighbors
Erin Prosser ’04
MCRP, left, and
April Sunami ’02
chat in their
neighborhood
on the Near
East Side.



A science lesson teaches prekindergarten students at Eastgate Elementary the concept of absorption.



The youngest residents are the focus of another major PACT agreement, this one with Columbus City Schools and aimed at increasing the success of K-12 students and, ultimately, the graduation rate at East High School. Inspired by a seed planted when former Wexner Medical Center CEO Dr. Stephen Gabbe developed a relationship with Near East Side students, the partners designated six schools — East High, Champion Middle School and four elementaries — as health sciences academies in 2014.

The aim is to increase rigor, set students' sights high and help parents meet challenges to become stellar coaches and advocates for their kids. That means looking at every opportunity through the lens of the health sciences, from simple reading assignments to field trips for eighth-graders to Ohio State's medical campus, where they interact with staff along with med school students who hail from their neighborhood.

"Watching our kids get excited and envision themselves standing on that campus as medical students was powerful," says Tei Street '89, who directs the health sciences academies program for Ohio State. "On the way back on the bus, not one kid had earbuds in. They were all excited and talking about what they had experienced."

In Eastgate Elementary hallways — where little lab

coats on hooks line the walls, students' experiments are under way in classrooms and nurses who have adopted each classroom are interacting with youngsters — medicine is high profile. At this and the other academies, med center and PACT staff cheer students as they arrive on the school year's first day.

"Our kids and teachers love, just love, the partnership," says Eastgate Principal India Wilson. "You can just see the excitement when the nurses are here. They have fantastic lessons — very creative and very engaging."

And while the energy in the schools is palpable, Street points to data as evidence of success. With results from three years of the 10-year endeavor in the books, three schools have jumped one to two levels on the state's report card and the East High graduation rate is up nearly 8 percentage points.

"When you bring a presence like Ohio State to an area that has been all but forgotten, people feel it, they see it," Street says. "It's common for parents to walk through here and see nurses from East Hospital in their scrubs. It says, 'Oh, they do care about us, and they do care about our kids.' So part of what this partnership is about is changing the mindset and helping everybody to know that we've all got a role to play." ✨

MARY ALICE CASEY is editor of *Ohio State Alumni Magazine*.



Reviving the American dream

An Ohio State-led program will give first-time homebuyers a path to the middle class.

THREE YEARS AGO, Courtney and Jonathan Hooper bought their first home.

“It was an investment, a secure place for our family,” says Courtney, whose first child was due in September. “We wanted something we could put our work into so it would pay off later.”

That sentiment might feel uneasy to those haunted by the 2008 housing market collapse. But experts believe homeownership remains the primary way middle-class families build wealth.

That’s why in 2018, Stephanie Moulton — associate professor in Ohio State’s John Glenn College of Public Affairs — spearheaded the Power of Home project. A collaboration of Ohio State, the Ohio Housing Finance Agency, the social enterprise Framework Homeowners and other partners, Power of Home is designed to help first-time, lower-income homeowners maintain and improve the values of their homes.

“A home is a place to live, but it’s also [many families’] biggest asset,” Moulton says. “By the time they retire, it will most likely be their primary source of wealth.”

Power of Home was a winner in the inaugural Alliance for the American Dream competition, a philanthropic initiative of Schmidt Futures that challenged U.S. communities to envision ideas to bolster the middle class.

First-time homebuyers often are challenged by the details of maintenance and expenses. Falling behind leads to myriad problems, including foreclosure. But consistent maintenance reduces expenses and increases property values.

“We’ve had to fix a lot,” Courtney Hooper says. “Fortunately, it’s all been problems we can solve.”

An online platform and suite of resources for Power



of Home participants includes a planner for preventive work that reduces expenses long-term. Participants can also receive financial insights on interest rates, home value and improvement costs. They also will be able to tap into a low-interest loan pool for emergency repairs.

As the program builds, more first-time homeowners will be able to join. The team also believes Power of Home can expand throughout the United States.

“There’s a lot to gain through this program,” says Jim Durham, director of homeownership at the Ohio Housing Finance Agency. “If we lower foreclosure rates by increasing people’s property values, wealth and sustainability, that helps the whole community.” —

ROSS BISHOFF ✨

Courtney and Jonathan Hooper view their first home as an investment and a long-term commitment.



An early boost for early promise

For more than 30 years, the Young Scholars Program has recognized and empowered talented students.

IN 1988, THE UNIVERSITY CREATED 120 annual scholarships for talented students without a family tradition of college attendance to study at Ohio State. The Young Scholars Program continues to break down barriers to higher education and create pathways to service in professions such as law, medicine, science and engineering.

“Every student who successfully navigates the program, we change not only the trajectory of their lives, but the lives of family members,” says Executive Director Chila Thomas.

Drawn from Ohio’s nine largest urban public school districts, talented middle and high school students get an early boost for college with preparation and planning, peer mentoring and special programming.

“It supports them as undergraduate students and helps them to graduate from the university despite what reports say about the academic success of those school districts,” Thomas says.

The Young Scholars Program afforded me the opportunity to attend and graduate from Ohio State. I had the privilege of asking three other current or former scholars what the program has meant to them. — **TAYA FLORES '05 ***



Mercedes McFarland Jackson '02

HOMETOWN: TOLEDO

Class notes: Majored in history at Ohio State, went to Yale Law School and is now a lawyer in Minneapolis

“There are all types of initiatives to increase diverse candidates coming into law schools. As I get involved in initiatives to bridge that gap, I’m reminded of how fortunate I was to have been identified at such a young age for the Young Scholars Program.”



Sly Worthy Jr.

HOMETOWN: LORAIN

Class notes: Sophomore at Ohio State studying social work and African American and African studies, with aspirations to one day address inequality in education

“They set us up to go to career fairs. They help us with resumé building. They help us stay on the right track by providing us with success coaches. The amount of support we get is unbelievable.”



Montazia Tolbert

HOMETOWN: YOUNGSTOWN

Class Notes: Senior at Youngstown East High School preparing to start at Ohio State in fall 2019

“The Young Scholars Program showed me I am college-bound. It made receiving a higher education possible. The program has opened doors to an endless networking system and a family of supporters who want you to succeed.”

SESQUICENTENNIAL SCHOLAR

PSYCHOLOGY MAJOR SEES MANY SIDES TO HER SCHOOL

OHIO STATE REPRESENTS so much to so many, and Tori Bradford has a firm grasp on much of what the university embodies.

Growing up in rural Paulding, Ohio, Bradford appreciated the university’s rich agricultural heritage and athletic traditions. As a psychology major on the Lima campus, she’s availed herself of wide-ranging opportunities for undergraduates as she pursues her



honors thesis research distinction, which recognizes high academic achievement and completion of an independent research project.

Bradford also appreciates the university’s desire to make education affordable to all. She benefitted from the Arthur and Marian Rudd Scholarship, which allowed her to attend the Lima campus. There, she found faculty devoted to students’ success.

“My family has always admired the prestige of Ohio State,” says Bradford, who was chosen for the Sesquicentennial Student Scholar Leadership Program. “I take great pride in my university and enjoy sharing the wonderful experiences

I’ve had. I want to share my story during the celebration of the sesquicentennial and encourage others to share theirs.”

Part of her story includes working to improve experiences for future students. As president of Buckeye Scholars, a social group for Ohio State Lima’s honors program, she helps plan volunteer projects to give back to campus and the local community.

She also helped launch a student-led capella group, REEDefined Acapella, and orchestrated the We Serve: Talent project, through which organizations can sponsor acts by donating to the student food pantry. — **Ross Bishoff**

In sickness and in health

WHAT WE KNOW as The Ohio State University Wexner Medical Center has gone through quite a transformation since its origin as the Willoughby Medical University of Lake Erie in 1834. As Ohio State celebrates its 150th year, we provide this capsule look at just how far the medical center has come in its 185 years. — **JOSHUA WRIGHT** ✱

9,500

lifesaving transplants since 1967

2,000

research studies under way

1,815,070

outpatient visits in last year

130,916

emergency department visits in last year

5,264

births in last year

64,529

patient admissions in last year

\$100 million

in research grant awards in 2018–19

18,000

College of Medicine MD and residency program graduates practicing in all 50 states and more than 50 countries

26

consecutive years in which the medical center has been rated one of America's best hospitals by *U.S. News & World Report*



MEDICAL ORIGINS



1846: Willoughby school moves to Columbus and merges with the Starling Medical College, the first teaching hospital in the United States.

1918: Starling Medical College's assets are donated to Ohio State.

1914: The Ohio State University College of Medicine is established.

1999: The medical center expands off campus with the acquisition of what is now East Hospital.

1990: The first patient is admitted to the medical center's dedicated cancer hospital, now known as The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute.

2004: Richard M. Ross Heart Hospital opens.

2012: The medical center is renamed The Ohio State University Wexner Medical Center, recognizing the leadership of philanthropist Leslie H. Wexner.

2000: Ohio State opens the Dorothy M. Davis Heart and Lung Research Institute.



TEST YOUR KNOWLEDGE OF OHIO STATE: What type of school — the first of its kind in the nation — did Ohio State help create in 1929? **See answers page 84.**



Game changer for young patients

A virtual-reality gaming system introduces new worlds to children who face frequent medical treatments, reducing stress at key moments.

BY TERRI STONE

A NURSE LEADS THE YOUNG

HEMOPHILIA PATIENT to a treatment room at Nationwide Children's Hospital. Awaiting him is a specially designed virtual-reality headset, which presents him with animated characters in colorful worlds that he can control with simple head movements and regulated breathing. His arms are free for the needle sticks and infusions he has endured for years, although never with such indifference.

This innovation began several years ago with a chat. The players were Dr. Amy Dunn, professor of pediatrics in Ohio State's College of Medicine and director of pediatric hematology at Nationwide Children's Hospital, and Jeremy Patterson '00, then leader of user experience technology at the hospital's research institute. Their discussion centered around the fact that the use of virtual reality in health care had not, to that point, taken into consideration a child's size or skill level.

"It was the first time I learned of needle phobia, and I was fascinated," says Patterson, also an adjunct faculty member in Ohio State's Advanced Computer Center for the Arts and Design (ACCAD). "I had heard about virtual reality in treating PTSD. I recognized needle phobia as a form of PTSD, so instead of treating it after the fact, I thought we could manage it by distracting the patient."

Rob Strouse, a user experience specialist at Children's, joined the conversation and created more than a dozen customized cardboard headset prototypes. Former ACCAD students Alice Grishchenko '17 MFA and John



Designers created a whimsical foam mask for players of Voxel Bay, a virtual-reality game that helps young patients through treatments that can be painful or scary.



Luna '17 MFA served two-year internships at the hospital, where they designed interactive 3D games to be soothing and engaging.

The system, now known as Voxel Bay, has received two thumbs up from children ages 6 to 18, their parents and medical staffers. Grants and a clinical study, published by JMIR Serious Games, pushed the venture forward. To bring it to more families, the team needed a company through which to license the intellectual property, and LittleSeed was born. Via LittleSeed, the pilot program will expand to encompass five additional children's hospitals.

"Our goal was to break boundaries with virtual-reality games, with every aspect providing medical and therapeutic value," Patterson says. "The beautiful thing is that children only see the entertainment value and get to have fun."

"Our goal was to break boundaries with virtual-reality games, with every aspect providing medical and therapeutic value."

— JEREMY PATTERSON

Patterson is on a team with colleagues from the College of Social Work and Wexner Medical Center testing the benefits of virtual reality for people at the other end of life's journey. They hope to nurture empathy among caregivers of dementia patients by enabling them to experience short-term memory issues and time and place disorientation.

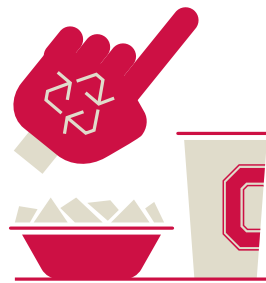
Dunn says the study has made her a better physician who is more engaged during her patients' treatments. "There were years of work and back and forth, with the entire team pouring their heart and soul into improving how children experience medical care," she says. "I was excited and proud with our results." *

Waste makes haste

IT'S GAMEDAY AT OHIO STADIUM and more than 100,000 scarlet-and-gray-clad fans rush to their seats, but not without stopping to grab concessions before watching their favorite team on the field. The players aren't the only stars. Behind the scenes, students are working hard to divert at least 90 percent of the stadium's trash from landfills to be recycled, repurposed and composted. Follow along the path of those empty cups and discarded nacho trays that has kept Ohio State's diversion rates No. 1 in the Big Ten for the past six years, making us winners on and off the field. — **KAYLIN HYNES** *

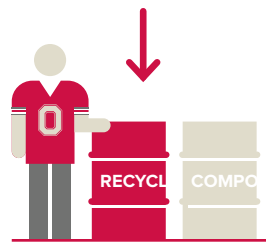
PRE-CONSUMER WASTE

Waste produced behind the scenes — such as food scraps — is taken from stadium kitchens to Price Farm in Delaware County for composting.



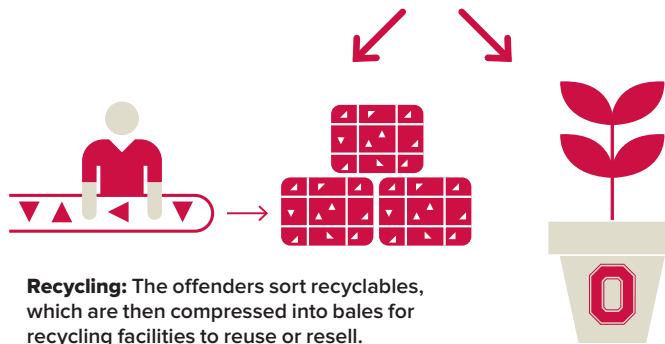
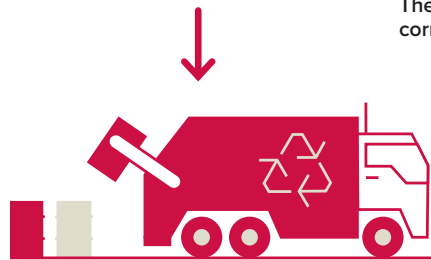
POST-CONSUMER WASTE

The stadium continuously works to replace serving pieces that are not recyclable or compostable. Most recently, the stadium switched from plastic to compostable nacho trays, and an effort to serve fountain soda with no-straw lids is in the works.



Each post-game Sunday morning, Naval ROTC members collect bins and excess trash and deliver it to trucks waiting to haul all of the material to Allen-Oakwood Correctional Institution in Lima.

Waste goes into more than 70 zero waste stations, which are monitored by local high school students recruited by I Am Change Outreach. The students help patrons correctly dispose of items.



Recycling: The offenders sort recyclables, which are then compressed into bales for recycling facilities to reuse or resell.

Compost: Partnering with a local nursery, offenders remove compostable items that may have been missorted at the stadium and compost them on site.

"This program brings awareness of our waste issues to groups that may not have thought about it in the past. Folks from ROTC, students throughout central Columbus schools and Ohio State students who work in the program — all their efforts come together to impact fans who come from all over the world."

— **Graham Oberly, Ohio State sustainability coordinator**



150
1870
2020

TREASURING OUR PAST

We build on our history with each passing day, adding to the rich mosaic of experiences, traditions and values that connect us as Buckeyes.



Ginette Rhodes (left) and University Archivist Tamar Chute utilize the vast resources of University Archives in their Carmen Collection research.



Rhodes delves into photo negatives in her work to help tell many of Ohio State's untold stories.

UNVEILING OF RICHES

Stories by Ross Bishoff

Photos by Jo McCulty and Logan Wallace

Through the Carmen Collection project, a wealth of powerful stories from throughout Ohio State's first century and a half is being discovered and amplified. They will live in perpetuity in University Archives. Without them, our history would not reflect our reality.



1



2

Ginette Rhodes '19 took her audience back in time.

Leveraging archival material such as looping documentaries, photo albums heaped on tables and a giant timeline of historic events, Rhodes guided fellow Buckeyes on an unexplored journey of Ohio State's story. She told of little-known researchers, entrepreneurs, drum majors, professors, doctors, linguists and more.

She started at a logical beginning: her own.

Projecting a picture of herself as a baby in 1997 on a large screen, Rhodes explained how her grandmother Nola was the first person to hold her. It was the birth of a close bond, one that would build through the years based on many shared passions, including a love for research.

"She's very proud of the truth," Rhodes said of her grandmother, who spent years researching the history of slavery in the United States.

On this evening, Rhodes was speaking to members of Women & Philanthropy at Ohio State, a group of alumni

and friends who support students and faculty. Her topic: the Carmen Collection, a collaborative project to unearth seldom-told stories about members of the university community and put them on display during Ohio State's sesquicentennial year.

"When I accepted my position as a research intern for the Carmen Collection, I immediately called [my grandmother]," she recalled. "We talked about the power of being a voice when voices are lost along the way."

Voices have, indeed, faded during the first century and a half of Ohio State's existence. That reality led University Archivist Tamar Chute to propose the idea for the Carmen Collection a little over two years ago.

"We know the big decisions, the big events, the presidents. But there are so many more stories that have made up the university," Chute said. "Not telling their stories is not telling the legitimate history of the university."

In mid-2018, Rhodes and fellow Carmen Collection researcher Reyna Esquivel-King '19 PhD meticulously combed through a mountain of historic resources: *Lantern* articles and *Makio* yearbooks that stretch back to the 1880s, oral histories, 110 years of alumni magazines, biographical and subject files — quite literally, whatever they could get their hands on.

Along the way, they dug up stories of determination,



3



4

1 | Jean Williams works in Thompson Library. When she enrolled in 1962, barriers to accessibility led her brother to carry her up the steps to her classes.

2 | Julie Cochran faced similar challenges when she arrived four years after Williams. Members of the Delta Chi fraternity helped her navigate to class.

3 | Cochran's first trip down a ramp outside Hagerty Hall gave her a chance to show a sense of humor that matched her determination and resilience.

4 | Williams, second from right, went on to serve the Columbus advocacy group Courage Inc., which recognized Ohio State for its early gains in accessibility.

optimism, compassion and success involving people of all backgrounds and walks of life, illustrating the diversity of personalities who built Ohio State.

It didn't take long for Rhodes to dust off a gem.



Tucked away in a lost cranny of university history was the story of Jean Williams, whose tale was eclipsed by that of Julie Cochran. Both women helped bring down accessibility barriers for students with disabilities. But while Cochran's plight received coverage in newspaper and yearbook articles, Williams' story was virtually unknown until Rhodes began sifting through University Archives' subject files.

"Finding that story was so significant," Rhodes said. "It shows the value of what the Carmen Collection is, that we can share stories of determination that made an impact on education for everyone here."

As of the early 1970s, 33 buildings on the Columbus

campus were inaccessible to students with disabilities, and only the first floors of an additional 11 could be reached. Because Williams '68, '70 MA and Cochran '70, '74 MA used wheelchairs, friends and faculty discouraged both from attending Ohio State.

Neither listened.

Williams enrolled in 1962 and was one of few African American women at Ohio State at the time. The majority of her classes were in University Hall, which was not wheelchair accessible. So, her brother carried her up the steps to class every day.

Cochran arrived in 1966 and was told she could not attend classes required for her major because they were on the third floor of Derby Hall. Upon learning this, 35 members of Delta Chi fraternity took turns escorting her and carrying her up the steps to class each day.

Cochran's story garnered more attention in *The Lantern* and from other students because it came at a time when the issue of accessibility was a national topic.



Rhodes conducts research for Carmen Collection stories at University Archives.

DIVE INTO THE STORIES The Carmen Collection will be shared throughout the sesquicentennial celebration year.
go.osu.edu/carmencollection

In fact, 1972 graduates used their class gift to dismantle many accessibility barriers. The class invited Cochran to speak at campus events and raised \$75,000, which helped the university qualify for federal dollars.

That funding resulted in transportation services and housing accommodations for those with disabilities, modified buildings and street curbs, a library for people with visual impairments and establishment of the Office for Disability Services.

The university was recognized for these efforts in 1973 by Courage Inc., a Columbus advocacy group in which Williams was active. The timing of these advancements was significant: Ohio State's accessibility efforts began almost two decades before the Americans with Disabilities Act of 1990.

"If you go into any building on campus today, there's this idea that of course there are elevators and ramps," Chute said. "That's not the way it always was — and the effort was started by students. It shows the power of research and what we can share with people about

determination and why it makes an impact on education for everyone here."



The tenacity Cochran and Williams demonstrated is threaded through many Ohio State stories. Another involves Pomerene Hall, built in 1922 and dedicated specifically for women's use. Maybe you knew that. But did you know Caroline Breyfogle, the university's first dean of women, and others pushed for 10 years for a gathering place for female students?

It's possible you knew Ohio State has always been co-ed. But why? "It's because the agriculture professor, Norton Townshend, for whom Townshend Hall is named, sent his two daughters to register for class the first day the university opened," Chute said. Often, it's not just the facts that are important, she added, "it's the why."

And the reality is, many people swam upstream to find a place for themselves at Ohio State — and to make a place for those who followed. The value of their example cannot be overstated.



“It’s extremely important for future students to see their history and know they’re not alone, that these groups have been here — and they struggled — but they overcame,” said Esquivel-King, who researched the history of Latinx groups on campus along with that of LGBTQ and Asian groups. “Not all the stories are positive; there’s still work that needs to be done. These stories bring issues to light.

“Students can work together on these problems,” she added. “Yes, it’s for the 150th anniversary celebration of Ohio State, which is great, but it’s also a way to look at what has been done, what can be done and what we can do to improve the environment at Ohio State.”

Rhodes — whose research focused on women, African Americans, students with disabilities and veterans, among others — said her exploration led her to realize many of the stories were strikingly similar to current issues she sees discussed on social media.

For instance, the Women’s Grassroots Network of the early 1990s has much in common with today’s #MeToo movement. Current discussions in the African

“It’s important for people to see these stories and say, ‘I can do what they did. I can be a voice for change.’”

— **Ginette Rhodes ’19**

American community echo concerns about civil rights in the 1960s.

“It’s important for people to see these stories and say, ‘I can do what they did. I can be a voice for change,’” Rhodes said.

Chute also hopes the project will be a launching point for more stories to be researched, uncovered and brought forth. “The stories are extremely powerful,” she said. “The most important outcome of the project is to retain these parts of university history in the archives so that when Ohio State celebrates its 200th anniversary, this history is part of what we already know.”

ROSS BISHOFF is a writer for Ohio State.

INSPIRATION FROM THE CARMEN COLLECTION

CHRISTINE BALLENGEE MORRIS

Newark’s Earthworks have long been considered a wonder of the ancient world. Built by people of the Hopewell culture more than 2,000 years ago, they are the largest set of geometric earthen enclosures in the world. And when a country club wanted to expand its golf course, eating up more of the earthworks’ land, Christine Ballengee Morris drew a line in the sand.

A Native American of Cherokee-Appalachian descent, Ballengee Morris is an Ohio State professor in the Arts Administration, Education and Policy Department and former American Indian Studies



coordinator. She organized a group, Friends of the Mounds, to protect the land.

The group helped establish Newark’s Earthworks as a National Historic Landmark and as Ohio’s official prehistoric monument. Acting on a Friends of the Mounds proposal in 2006, Ohio State’s Board of Trustees established the Newark Earthworks Center on the university’s Newark campus.

JOSUÉ CRUZ JR.

Alpha Psi Lambda is the first and largest co-ed Latino fraternity in the nation, with 33 chapters in 16 states and more than 3,000 members. But it didn’t exist until 1984, when Ohio State’s Josué Cruz began leading the effort to form it. The Latino organization became official in February 1985, and 13 male and female students at Ohio State were initiated on March 10 of that year.

It’s one example of Cruz’s far-reaching legacy for the Latinx community at Ohio State. Hired as Ohio State’s assistant vice provost for the Office of Minority Affairs



in 1983, Cruz helped establish numerous groups, including the Hispanic Graduate and Professional Student Organization, before moving on in 1996.

He also assisted several academic departments in minority recruitment and retention efforts. One of those was the Research Apprenticeship Program, in which underrepresented high school students from Franklin County served as interns in the medical, veterinary sciences, biological sciences and pharmacy disciplines.



1. Frank W. Hale Jr. Black Cultural Center

The Hale Center's diverse collection of paintings, sculptures, photography and artifacts has been recognized as one of the top collections of African American art in the country for a university cultural center. Many artists represented hail from Columbus, such as Aminah Robinson, Pheoris West and Roman Johnson.

2. University Museum

A project of University Archives and Ohio Staters, Inc., the museum in University Hall features items salvaged from the original University Hall, constructed in 1873 as the first building on campus, and artifacts such as this beanie worn by freshmen of a bygone era.

3. Page Hall

From the John Glenn Archives, explore a timeline showing Glenn's life in context with world events and view childhood photos, his first pilot's license, NASA artifacts and memorabilia from his U.S. Senate career and presidential run.

4. Woody Hayes Athletic Center

The center's sunlit Ohio State trophy room allows visitors to bask in the glory of the program's seven Heisman Trophies — including Archie Griffin's history-making two Heismans — and eight National Championship trophies.

5. Museum of Biological Diversity

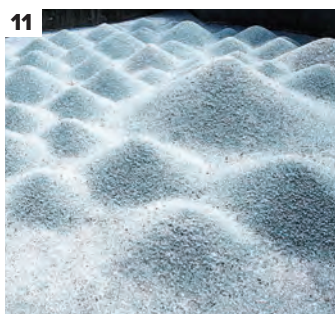
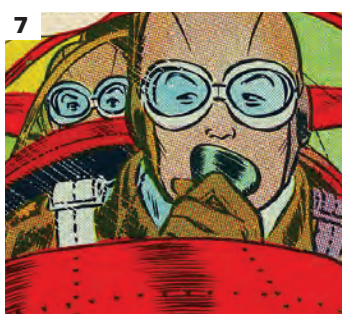
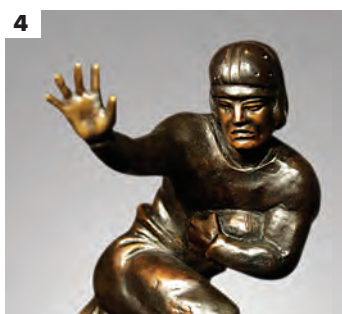
Don't miss the annual spring open house, which shows off the museum's numerous research specimen collections, including insects, crayfish, freshwater fish and mussels, mites and tetrapods.

6. Faculty Club

Rotating art exhibits complement a permanent collection displayed throughout the building. Works span a range from acclaimed realist and former Ohio State student George Bellows to contemporary artist Dion Johnson.

Our collective keepsakes

ART AND ARTIFACTS. Rare books and cartoons alike. Minerals and all manner of memorabilia. These are but a few of the treasures Ohio State has amassed in its first century and a half. Here's where you'll find some of our favorites. — **SHELLEY MANN '03** *



Photos: Jo McCulty and university sources (treasures), Kevin Fitzsimmons (Script Ohio)

7. Billy Ireland Cartoon Library & Museum

Located in Sullivant Hall, the museum boasts the world's largest collection of American printed cartoon art. Catch original comic art and artifacts such as the drawing table Chester Gould used to sketch Dick Tracy comics.

8. University Archives

Since 1965, University Archives has served as the official memory of Ohio State. With more than 30,000 boxes of manuscript materials and 2 million images, the archives can help visitors find material on nearly any topic related to the university's history.

9. Orton Geological Museum

A replica of the Early Jurassic carnivorous dinosaur *Cryolophosaurus ellioti* greets visitors to Orton Hall, which houses the museum. Browse a comprehensive collection of Ohio minerals, rocks, meteorites and oddities such as skeletons of a pterosaur and ground sloth.

10. Historic Costume & Textiles Collection

The collection in Campbell Hall includes more than 11,500 textiles, clothing and accessories. Two recent exhibitions explored the evolution of swimwear and the intersection of sports and fashion.

11. Wexner Center for the Arts

While akin to a European kunsthalle, an arts space without a permanent collection, the Wex has a commissioned piece that's always on view outside: Maya Lin's large-scale installation "Groundswell," made with 43 tons of shattered automobile safety glass.

12. Ohio Union

The union is home to a few striking sculptures, including "Circus Acrobats," two flying figures by artist George Segal. You also can find four life-sized Brutus Buckeye statues, including one that's game for selfies.



Script Ohio has been part of the Ohio State story for more than eight decades.

A moving tradition

TBDBITL treats fans to one of the Buckeye State's best-loved rituals.



IT IS WELL DOCUMENTED that the University of Michigan band spelled the word "Ohio" in cursive in 1932 as a tribute to the visiting team from Ohio State. But as Paul Droste, The Ohio State University Marching Band director from 1970 to 1983, likes to point out, those Michigan musicians merely stood still.

Ohio State's tradition of marching to form "Ohio," as if a giant invisible pen were writing it on the field, was the invention in 1936 of then-band director Eugene Weigel. It's so beloved that high school and even middle school bands across the state have adopted it.

Script Ohio is still performed largely as Weigel envisioned it, except for the matter of dotting the i. After choosing a trumpet player for the task, Weigel soon realized a sousaphone would make a more dramatic dot. This practice continues, except on rare occasions when the honor is bestowed on a famous Ohioan.

"Woody [Hayes] saluted, bowed to both sides, but we'd failed to tell him to stay put, so he just walked off the field," Droste recalls. Such mishaps are rare, though they happen. A sousaphonist once clocked a cameraman.

The formation appears complicated, but it's actually just a matter of following the leader and keeping strict counts, says Shelley Graf '83, who became the university's first female drum major in 1981.

"There's nothing like the adrenaline rush of performing in front of 100,000 screaming fans," Graf says. "But you can't lose your focus. You wouldn't want to spell Ohio wrong!" — **RICH WARREN** ✨

Rising above the field

SINCE OHIO STATE'S EARLIEST DAYS, Buckeyes have gathered not just to admire athletes' speed and agility but to be inspired by humans' innate drive to come together to confront adversity and overcome the odds. On fields and in stadiums, athletes and coaches have delivered a kaleidoscope of thrilling moments that remain frozen in time, many on fall football Saturdays with 100,000 fans packed into Ohio Stadium. We share pride in their toil and their achievements — and we celebrate the character of exceptional athletes and leaders whose actions transcend sport. — **TODD JONES** ✨

DETERMINATION



JESSE OWENS

Few athletes have faced more pressure than Jesse Owens at the 1936 Berlin Olympics. Two months earlier, he wore an Ohio State track and field uniform, as he did the year before while setting three world records and tying another at the Big Ten championships. A grandson of slaves, Owens succeeded despite university policies that prohibited him from living on campus. Now, he was in a Berlin stadium competing in the presence of German chancellor Adolf Hitler, who portrayed blacks as “non-humans.” The Buckeye refused to buckle. Instead, Owens won four Olympic gold medals, gaining immortality by shattering Hitler’s idea of Aryan superiority.

INSPIRATION



CHIC HARLEY

You couldn’t help but stare at Chic Harley when he blazed across the turf, football in hand. James Thurber, his Ohio State schoolmate and later a famous journalist, wrote that the Buckeye ran like “a cross between music and cannon fire, and it brought your heart up under your ears.” So many people wanted to watch Harley, the school’s first three-time All-American, that there wasn’t enough room at Ohio Field to meet demand. On the day after his final game in 1919, the university’s Board of Trustees signed a resolution to build Ohio Stadium. Harley ignited Buckeyes’ imagination of what Ohio State football could be.

ADVOCACY



PHYLLIS BAILEY

No cultural barrier in women’s collegiate athletics could withstand the pioneering spirit and persistence of Phyllis Bailey. Her path began in 1956 as Ohio State’s first women’s basketball coach, and her trail widened over the next four decades to benefit women in all sports. Besides coaching, Bailey served the university as an instructor, advisor and administrator. She spent her final 20 years at Ohio State as assistant athletics director, never wavering as a driving force in establishing the acceptance, growth and equality of women’s collegiate sports. Her work had an impact on Buckeyes and the entire nation.



Illustrations by Michael Hoeweler

EMPATHY



WOODY HAYES

Two days before he died in March 1987, an ailing Woody Hayes traveled 75 miles from Columbus to Dayton, Ohio, to introduce a luncheon guest of honor: Michigan football coach Bo Schembechler. In Woody's world, even a respected nemesis was worthy of a good deed. Hayes set Ohio State's standard of success with barbed toughness over 28 seasons, yet the irascible coach saw life in big terms, woven by small acts of kindness. He implored all Buckeyes to act on behalf of others. "You win with people," Hayes often said, and he wasn't just talking about a stadium scoreboard.

LOYALTY



KATIE SMITH

Her passport has stamps from around the world, a testament to a Hall of Fame basketball career unmatched by any Buckeye. Still, Katie Smith's heart has never left home. She's remained rooted in her hometown of Logan, Ohio, in her adopted home of Columbus and in the Ohio State community. She learned the importance of relationships in college, and she has since nurtured her connection to coaches, teammates, students, professors and all Buckeyes. She's a superstar, winner of three Olympic gold medals and four pro championships, but everyone knows her simply as Katie, a friend to all.

GENEROSITY



ARCHIE GRIFFIN

The phrase "only two-time Heisman Trophy winner" is practically part of Archie Griffin's name. Yet Griffin always has credited his Buckeye coaches and teammates for helping him earn college football's top honor in 1974 and '75. His selflessness reveals the true Buckeye, an amicable university ambassador who thinks of others first. Archie's time is your time — for autographs, leadership advice or good causes. Each year, about five Ohio State athletes benefit from the Archie Griffin Endowment Fund for Olympic Sports, which has raised more than \$2.5 million since 2002. He lives the motto: Pay forward.

All together now

Students find common ground in organizations of every era.

WHETHER NUMBERING 24 (as they did on the first day of classes in 1873) or 68,100 (as they did at the start of last academic year), students have always found friendship and solidarity in student organizations. They sprang up almost immediately, and today total more than 1,400. In every era, they've helped students take a breather from their studies, gain leadership skills and rally around common causes. Here, some pioneering and present-day groups. — **ANDREW SHARP AND SHELLEY MANN '03** ✳

CREATIVE AND PERFORMING ARTS



THEN | Alcyone and Browning literary societies

Orations, essays, debates, literature and poetry were the lifeblood of literary societies on campus. Founded in 1874, the Alcyone Literary Society was among several early options for students. The first exclusively for women was the Young Ladies Society, formed in 1882 and soon renamed the Browning Literary Society. You can still sit in its amphitheater at Mirror Lake.



NOW | 8th Floor Improv

Like the university itself, groups for the performing arts have flourished and diversified. Those of recent years have included the Fly Fishing Club, the Chinese Folk Music Orchestra, a juggling club and a Lego group. 8th Floor Improv has brought energy to campus since 2004. Members perform comedy sketches and host improv groups from around the country at the annual Bellwether Improv Comedy Festival.

TECHNOLOGY/SPECIAL INTEREST



THEN | Aero Club

An interest in flying took off at Ohio State as early as 1919, just 16 years after Ohioans Wilbur and Orville Wright made history in man-powered flight at Kitty Hawk, North Carolina. The Aero Club of Columbus was founded that year by "Ohio State men commissioned in flying" and extended an invitation to "aviators of the army, navy and marine air service," according to *Lantern* articles of the day.



NOW | Artificial Intelligence Club

Ohio State students can dive into the sci-fi world of robots and self-driving cars through the AI Club. Open to all, it's especially popular among students from the Department of Computer Science and Engineering. Members hear from faculty and representatives of companies such as Microsoft on research and the uses of AI, and the club holds workshops on artificial intelligence coding.

CAREER BUILDING



THEN | Chemical Association

The Chemical Association was founded in 1893 to "develop men who will aid in the advancement of chemical science," *The Makio* wrote. The aim was to help students keep abreast of the latest discoveries and investigations and to encourage original research. At each meeting, professors and members presented papers on topics pertaining to chemistry and pharmacy.



NOW | Chemical Engineering Car Project Team

This team's objective is to design, build and test shoe-box-sized cars powered by chemical reactions. The ChemE Car team, comprising Ohio State undergraduates, races its chemistry-controlled vehicles at regional and national competitions. Safety is a key tenet of the group, which requires all members to receive training prior to handling the cars or chemicals.

Photos: University Archives (Browning), Makio (Chemical Society), Getty Images (plane), courtesy of 8th Floor Improv, Artificial Intelligence Club, ChemE Car team



The tears may roll

More than a century after it was penned, ‘Carmen Ohio’ still unites the Buckeye family.

LIKE THE ALUMNI WHO WALKED campus paths more than a century before them, Noah Miller and Stephen Hayden experience the power of the Buckeye alma mater. “Carmen Ohio” holds a special place in their hearts and their community — and the unifying force it spurs is rooted in tradition and even research.

“I distinctly recall singing ‘Carmen Ohio’ for the very first time with everyone,” says Miller, a second-year student who sings with the Men’s Glee Club. “It was the exact moment that I felt like I was really part of something — something big.”

Hayden was studying abroad in Europe when he experienced a surreal alma mater moment. “We sang ‘Carmen Ohio’ walking through the streets of Berlin on our last night in Germany,” says Hayden ’19, who also was in the Glee Club. “All of the students sang together. It was unifying, very identifying.”

Evoking that sense of belonging is the magic of “Carmen Ohio.” Research shows synchronous human behavior, such as when people move and sing together, can create a bond, explains David Huron, professor of music theory.

“‘Carmen Ohio’ is not something you sing in the shower. Inevitably it’s sung in a group, where a unique dynamic occurs,” he says. “The very first line — ‘Oh! come let’s sing Ohio’s praise’ — is an invitation to be part of the group, to build allegiance.”

Luckily, just about anyone can master it.

“It has pulse. It’s melodic. It’s easily memorable, singable and attractive,” says Bill Ballenger, director of the School of Music. “It tugs at the heartstrings of anyone connected with the university. Face it, it’s cool.”

A request from the Glee Club prompted freshman Fred Cornell to pen the alma mater in 1903. Set to “Spanish Hymn,” a reverent melody in Christian churches, it was first sung by Glee Club members and gained popularity after *The Lantern* published it in 1906. (Years later, a legend circulated that Cornell wrote it on a train returning from a football drubbing by That Team Up North, but most accounts favor the former story.)

The word “Carmen” means song or poem in Spanish and Latin, so “Carmen Ohio” translates as “Song of Ohio.”

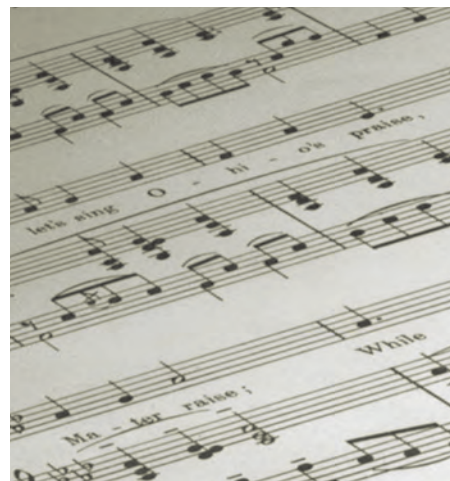
“The first verse is what we all know and sing. It’s relatable and optimistic, and it focuses on friendship. It’s brilliant — especially the lines about the passage of time, the cycle of the seasons,” says Scott Jones, associate director of bands. “In contrast to the youthful enthusiasm of the earlier verse, the last two verses refer to darker days ahead, of growing older and harder times.”

Quite frankly, says former marching band director Paul Droste, “the first verse is quite enough. It says who we are and why we’re singing Ohio’s praise.”

The Orton Hall chimes became the opening notes of “Carmen Ohio” in 1955. The response was so great, the chimes became a permanent prefix.

In recent years, another tradition has taken hold: “It’s very meaningful when the football team comes over to the band and sings the alma mater after the game,” Droste says. “No matter what’s happened in the game — even if we lose, which we don’t very often — the song promotes unity and camaraderie. It’s powerful.”

— VICTORIA ELLWOOD ✨



CARMEN OHIO

Oh! come let’s sing Ohio’s praise
And songs to Alma Mater raise;
While our hearts rebounding thrill
With joy which death alone can still.
Summer’s heat or winter’s cold,
The seasons pass, the years will roll;
Time and change will surely show
How firm thy friendship — O-hi-o.

These jolly days of priceless worth
By far the gladdest days of earth,
Soon will pass and we not know
How dearly we love O-hi-o.
We should strive to keep thy name
Of fair repute and spotless fame;
So, in college halls we’ll grow
To love thee better — O-hi-o.

Though age may dim our memory’s store
We’ll think of happy days of yore,
True to friend and frank to foe,
As sturdy sons of O-hi-o.
If on seas of care we roll,
’Neath blackened sky, o’er barren shoal,
Thoughts of thee bid darkness go,
Dear Alma Mater — O-hi-o!

— Lyrics and arrangement by
Fred Cornell, Ohio State student 1902–04



TEST YOUR KNOWLEDGE OF OHIO STATE: This Ohio State icon, who helps Buckeyes connect in fun and festive ways, was born in 1965. See answers page 84.



We find power in association

FROM THE VERY BEGINNING, Ohio State alumni were committed to come together to serve their university, its students, their communities and one another. They still are. — LINDA CROSSLEY '72 AND KAYLEE HARTER *

6

alumni who comprised Ohio State's first graduating class in 1878 reunited a year later to create what would become The Ohio State University Alumni Association.

130

regional clubs connect Buckeyes all over the world, from New York City to Shanghai.

47

alumni societies center on the varied and vibrant interests of graduates.

181

alumni association events connected and inspired alumni last year.



5,264

alumni serve as Buckeye Advocates, working to influence public policy, shape Ohio State's future and raise awareness of issues that impact the Buckeye community.

800-plus

volunteers brought positive change to communities across the country during Buckeyes Give: Month of Service in April.

\$12,000,000

was the amount, in today's dollars, that alumni raised to build Ohio Stadium, which opened in 1922.

\$1,250,000

was the nest egg alumni clubs and societies raised for student scholarships last year, continuing a long history of Buckeyes helping Buckeyes.

1999

marked the opening of Longaberger Alumni House, which gives alumni a place to call home.

41

countries were explored during trips led by Alumni Tours last year.



TRIVIA ANSWERS

Page 38: Then-Ohio Gov. Rutherford B. Hayes signed the Cannon Act. Hayes Hall, the oldest existing building on the Columbus campus, is named for him.

Page 48: An Ohio State research team was involved in the Manhattan Project, the American-led effort to develop an atomic weapon during World War II.

Page 54: In 1902, A.B. Graham held the first meeting of an agriculture club for youth, which evolved into 4-H. He joined Ohio State in 1905.

Page 69: Ohio State helped create Indianola Junior High School, the first junior high in the country.

Page 83: Brutus Buckeye came to life in papier-mâché in time for Homecoming 1965.

SESSQUICENTENNIAL SCHOLAR

ENGINEERING MAJOR VALUES COMMUNITY

SARAH GREENBAUM FEELS COMPELLED to change her career trajectory. And the sky's the limit.

After five years as a special education teacher, Greenbaum chose to pursue her passion for engineering and space exploration by enrolling in Ohio State's College of Engineering in 2017.

"Coming to Ohio State as a nontraditional student and taking on the identity of a Buckeye meant



taking responsibility for my own potential," says Greenbaum, who was selected for the Sesquicentennial Student Scholar Leadership Program. "Becoming a Buckeye also meant becoming part of a wonderfully diverse group of people."

The large array of clubs and organizations available to students is a prime example of Ohio State's diversity, she says. As an active member of Students for Diversity in Education through Service, she adores the friendships she's made with people of different backgrounds and worldviews.

And while a diverse campus has been integral to Greenbaum's experience, she treasures the shared

community that is Ohio State. And there's no better time to celebrate than the university's 150th anniversary.

"The Buckeye community and campus life is the way it is because of the actions of those who came before us," Greenbaum says. "It reminds me I can take actions during my time at Ohio State, and even afterward, to impact that legacy in a positive way.

"It is also a celebration of all that ties us together as Buckeyes. We all walk the same halls and go to the same football games. Celebrating the little things that bring us together is what makes us a strong community."

— **Ross Bishoff**



CELEBRATE ALL YEAR LONG

There are so many causes for celebration this sesquicentennial year. Here are a few ways you can mark the auspicious occasion.



* BRUSH UP ON BUCKEYE HISTORY

Join Professor David Staley to celebrate the sesquicentennial with an exploration of the history of Ohio State. The university is offering Buckeye Biography online at no charge during the 2019–20 academic year.



* CATCH GREAT UNTOLD STORIES

The Carmen Collection amplifies voices lost over the decades with a historical exploration of the experiences, challenges and accomplishments of Buckeyes.



* ADD CLASS TO YOUR LIBRARY

Gain a stunning new perspective of Ohio State with a beautiful coffee-table book, *Time and Change*, from University Archives and The Ohio State University Press. It includes more than 300 rarely seen photos.



* WATCH THE DOCUSERIES

WOSU's Columbus Neighborhoods team will produce a six-part mini-documentary series, "Our Stories, Our Future," highlighting the unique experiences at Ohio State. Catch three programs this fall and three in the spring.



* ROOT FOR THE HOME TEAM

Cheer on the Buckeyes in a September 7 home game against Cincinnati as we kick off the sesquicentennial celebration and honor the 150 students selected as the university's Sesquicentennial Student Scholars.



* JOIN THE CELEBRATION

Join your Ohio State family at a sesquicentennial celebration planned on the Columbus campus March 21. Additional details coming soon!



* LET'S SING OHIO'S PRAISE

Join Buckeyes around the world in a global performance of "Carmen Ohio." We'll add your voice to a collaborative rendition that will inspire Buckeyes through years of time and change to come.



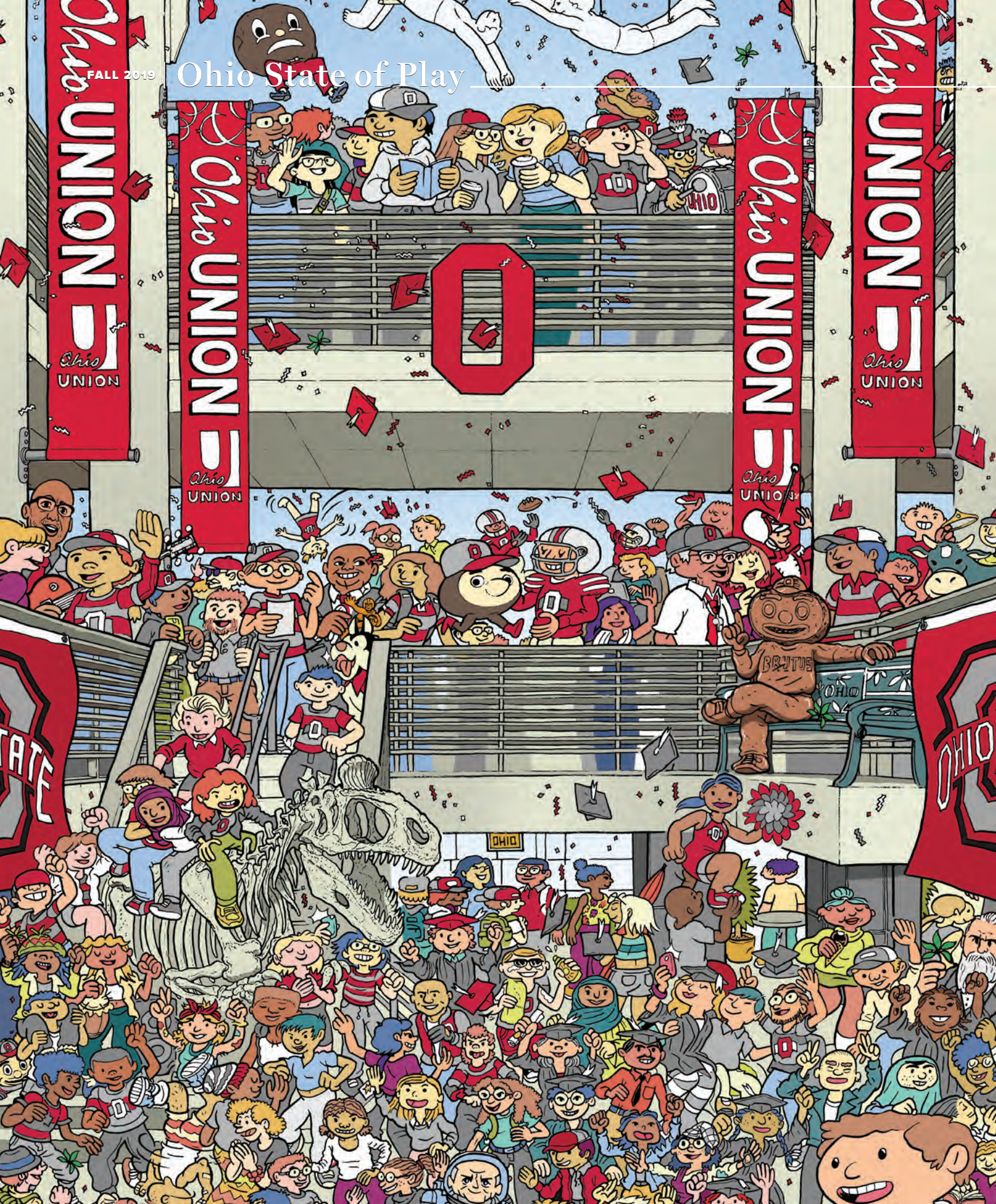
* ENJOY SOME ICE CREAM!

Here's a delicious way to celebrate a pair of 150th birthdays: Indulge in some Graeter's Buckeye Blitz chocolate chip ice cream. Like Ohio State, Graeter's was founded in 1870. Two great institutions that make Ohio proud!

VISIT 150.OSU.EDU FOR ALL THE DETAILS.

FALL 2019

Ohio State of Play



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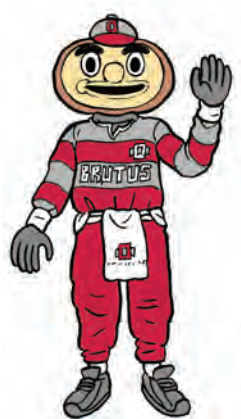
Ohio UNION

BRUTUS

Where's Brutus?

YOUR MISSION: Find Brutus Buckeye (three of him, actually) on this unusually busy day at the Ohio Union. Along the way, you might spy some other familiar people and events. Give yourself a point for each one, and compare results with your sharp-eyed friends.

— KRISTEN SCHMIDT *



*Illustration by Ulises Farinas
Coloring by Melody Often*

- Coach Woody Hayes:** Looking for tough, honest people
- Archie Griffin:** Hanging out with another lefty
- U.S. Sen. John Glenn:** He's got the right stuff.
- A student heading to Oval beach:** Sun's out, fun's out
- The bronze sculpture of Brutus:** Ready to 'Gram with you
- Ohio State President Michael V. Drake:** Songs in the keys of O, S and U
- The Orton Hall cryolophosaurus:** Pretty sturdy for a guy from the Jurassic
- A student eating a Drumstick:** Fresh from the Parker Dairy Store, natch
- Rutherford B. Hayes:** The beard is so 1888.
- Maudine Ormsby, 1926 Homecoming queen:** A moooving tribute to a champion
- BONUS: Find five buckeye leaves**

 **STUMPED?** Answers available at go.osu.edu/WheresBrutus

YOUR ALUMNI ASSOCIATION,
YOUR EVENTS



Come on home for Homecoming

Friends old and new can't wait to see you October 4-6 for this year's Homecoming festivities. The parade steps off from Ohio Stadium at 6 p.m. Friday, with the pep rally to follow at Ohio Union.

go.osu.edu/homecoming2019

Check out other coming events:
go.osu.edu/alumnievents

Huddle up alongside Ryan Day

The new coach welcomes alumni into his bright spotlight, answering questions about the Buckeyes, leadership and family.

BY TODD JONES

RYAN DAY SPENT THE PREVIOUS 17 YEARS as a college and NFL assistant coach, mostly cocooned from intense public attention.

Those shadows are gone now that Day is the new head coach of the Buckeyes and leader of one of college football's most storied and scrutinized programs.

Day understands and accepts why so much focus is on him as the Buckeyes prepare to open the season August 31 against Florida Atlantic. Interest is especially keen since he's replacing one of the sport's all-time legends in retired coach Urban Meyer.

Meyer unconditionally endorsed Day, often referring to him as elite from impressions that his successor made the previous two years as an Ohio State offensive assistant.

Still, there's much to learn about Day, so the 40-year-old native of Manchester, New Hampshire, was glad to answer questions from alumni eager to know more about their new coach.



What excites you most about your new head coaching position, and what do you anticipate will be your biggest challenge?
— Sherry Prine '73, '98 MA

What excites me most is just being part of such a rich tradition — a program that has such an unbelievable history of winning — but also feeling the support throughout Ohio and from the alumni. Being part of that, and leading that, is really special to me. The biggest challenge is going to be dealing with setbacks, handling those types of things, handling the losses, because it is so important here. I have to strike a balance so that even when things are not going well, we still move forward. My family and I must handle those things in the right manner.

How will you strike a balance among coaching defense, offense and quarterbacks now that you are the head coach? — David Roberts '73

I kind of have to stop myself because my eyes go to the quarterback and the offense a lot. But I'm in charge of everything now, so it is something I have to plan out ahead of time to make sure I'm involved in all the special teams' meetings, all the special teams' drills, which allows me to have some access to the guys on defense. Then I'm picking certain days when I'm just over with the defense and letting the offensive coaches run the offense. That allows me to really focus on the defense and be around those guys. I was able to build some relationships with those defensive guys in the preseason and in the first few games last season. That's carried over.

Will you and the coaching staff play the best student-athlete regardless of his experience, or is current production the most important factor?
— Jonathan Chu '02

A lot of things go into naming a starter. We like depth. We like to play a lot of guys, so anybody who deserves to play is going to be on the field. We will obviously play the guys who deserve to be on the field. The most experience is a critical factor in that, and there are a lot of things that we take into consideration that way. But at the end of the day, the best players will play.

Woody Hayes loved to talk about history, particularly the Second World War. If you could talk about anything but football, what would the subject be? — Dean Ramsey '52

Traveling is something I really enjoy. I like to go on vacations with the family and see not only different parts of the United States, but also



Ryan Day is the 25th head coach in Ohio State football history. He was offensive coordinator and quarterbacks coach the last two seasons.

LISTEN UP Ryan Day answers more questions from alumni — about football, life and Ohio State traditions — in a video. go.osu.edu/RyanDayQA

IT'S YOUR DEMOCRACY Ohio State political science Professor Michael Neblo studies how Americans talk about and to their government and its representatives. Send questions by Sept. 20 to inresidence@osu.edu or join Buckeye Room. go.osu.edu/BuckeyeRoom

Europe. In recruiting nationally for Ohio State, we are able to do that. I love talking about traveling.

What kind of music do you enjoy? — Mark Dyser '98
I like all kinds of music depending on the situation or the mood or what you kind of need at that moment, but I like country music the best. I kind of enjoy going to country concerts. Someone always told me that athletes want to be artists, and artists want to be athletes, so there is kind of a parallel there.

What are you doing to balance your family time and your coaching job? — Kati Weaks '89 AA

In this line of work, you have football and you have family. There is really no time for anything else, so I think it's important for coaches to make sure when they are not doing football that they are fully engaged with family. When you go home, you have to be home, and when you're in football, you're in football. I really make sure that I try to do the best I can so that when I'm home, I put the phone down. Although it's sometimes hard with recruiting. Our family tries to keep everything as normal as we can. We go to the grocery store together. I go to the kids' games. We do special things with the family. ✨

Right at home

We found our places off campus as well as on, often dining and dancing 'til the wee hours. Here, alumni who still live in Columbus (or visit often) share what they love in today's capital city.

BY SARAH MAGILL

Before things were *wicked* or *righteous*, before *bad* was good, back in the days of *groovy*, **Don Swales '56** decided to open a bar. While there was plenty of competition for Buckeyes' attention on High Street, Swales had a plan — and a different place in mind.

He was three years out of college and disappointed by the jobs he had tried. “I saw the empty space at the corner of Lane and Tuttle Park and decided that might be a good spot for a bar,” Swales says. Thus, the Varsity Club was born. “We were very lucky when we opened because right across the street were Jerry Lucas and Bobby Knight, and the championship basketball team was in full blast. We opened and had a built-in audience right off the bat.”

That was 60 years ago. Generations of students have come and gone, as have most of the watering holes known for buckets of beer and sticky carpet, leaving the Varsity Club as the oldest continuously open bar in the university district. “In other words,” Swales says, “their

grandparents went there and their parents. And now they're going.”

“I lived there,” says **T.J. Riley '66, '69 JD**. “We'd go see a movie then go to the Varsity Club. It was really a focal point to a lot of people.”

Because the Varsity Club did not have a permit to serve beer with a lower alcohol content (known as 3.2 and legal for anyone 18 or older to purchase in Ohio until 1987), it “became a hit with graduate students and faculty and people who were tired of the dive bar scene,” Swales says.

By 1965, Swales was able to hire a manager and take a step back. He moved to Aspen with his family. Nine years later, he sold the bar to Joe Mollica and Jim Ryan, who have owned it ever since.

“That's where we go now. So if it's a home basketball game we're checking out, we always go to the VC,” says **Tom Reeves '93, '05 MA**, director of energy management and sustainability in the Office of Student Life. “If it's a post-work hangout we want near campus, it's always the VC.”



ABOVE: Flying Tomato Pizza in a Pan had pizza pies to pine for.

RIGHT: Gelli Ann Dayrit of the Office of Student Life and Sam Shim enjoy lunch at Ethyl & Tank.





STILL HIGH ON THE LIST

Of course, High Street still has its allure. **Sam Shim '94, '97 MBA** has fond memories of places up and down the street, from Flying Tomato to Bernie's Bagels. These days, Shim, president of the Asian and Pacific Islander Alumni Society, observes that there are "more quality restaurant choices" in the neighborhood, including Ethel & Tank at High and 13th Avenue, which **Sam McBride '17** appreciates for its patio.

And while they may have gone for the beer, many patrons stayed for the dancing.

Joan Mastell '74, '79 MA liked to feel the funk at the Agora. "They would have bands, and we would go there and drink beer by the pitcher and dance." When they wanted a change of pace, the nearby Castle was an option.

Pam Bergen '82 remembers seeing Little Feat and punk bands at the Agora, but her more frequent stop was Zacharia's Red Eye Saloon "because they always had McGuffey Lane playing there. Country rock was popular back then."

By the time **Kristi Scott '03** saw Method Man &



Stacey Renker and her husband, Mark Sandbrink, an Ohio State police officer, enjoy the Columbus Symphony Orchestra at Columbus Commons. Renker headed there as a student when City Center (left) was the attraction.

Redman there, the Agora had become Newport Music Hall, but the scene was much the same. "There were parties there I would go to every now and then with friends," Scott says. "I actually really liked that because it was walking distance from north campus."

Photos: Jo McCulty (Renker), *The Columbus Dispatch* (City Center)



FIND YOUR CREW

Catch up with Buckeyes at alumni association events near and far. go.osu.edu/alumni-events

SO WHERE TO NOW?

As alumni, Columbus-area Buckeyes venture a little farther afield for their music fixes. On Sunday evenings, **David Penniman '75 PhD** pulls up a chair at Dick's Den, a jazz bar north of campus, to hear his son-in-law play. **Chris Arps Lugo '94, '99 MA** heads downtown. "A couple of years ago, Boy George played the Palace, and it was a fantastic show. The entire audience was up dancing."

Just this spring, **Molly Ranz Calhoun '86** saw The Four Tops and The Temptations there. An avid concert-goer, Calhoun also lets the beat carry her to Express Live, Schottenstein Center, Nationwide Arena and even Ohio Stadium. And proving you can go home again, "we also recently went to the Newport, to see a friend's son play in a band," says Calhoun, interim senior vice president of student life at Ohio State.

Until ride sharing became a thing, students shared the sidewalk. But once a quarter, **Stacey Renker '99** indulged in a ride on the No. 2 COTA bus.

"We would go down to the Max & Erma's at the City Center Mall, which is obviously not there anymore. That's what we would do as a special treat. That was our big expedition." (The City Center scene has been replaced by John F. Wolfe Columbus Commons, which hosts concerts, family movie nights, weekly food truck courts and other events.)

These days, a bus trip along High Street could take you to a wide variety of dining establishments that Buckeyes enjoy. **Phil Giessler '68** stops by Northstar Café for both food and atmosphere. The Short North restaurant is one of five Northstar locations in central Ohio that focus on locally produced, sustainably grown foods. When Penniman is in the mood for vegetarian fare, he chooses Little Eater, located on High Street in Clintonville and at the North Market.

Renker and other like-minded diners can take heart, though. Max & Erma's still has six Columbus-area restaurants and others across local borders. But none has the midnight breakfast buffet **Lenny Kolada '76** recalls the original German Village Max & Erma's offering: "Scrambled eggs, bacon, home fries and an unlimited supply of champagne. I remember that fondly."

GET OUT AND ABOUT

The first seven dates Chris Lugo had with now-husband **Manuel Lugo '90, '92 MS, '99 MD** were at Mean Mr. Mustard's bar, but they owe their meeting to the old Larkins Hall. She was a physical education major; he was pursuing a master's in exercise physiology.

"Outside of classes, we would still hang out there," Chris says. "We would take a fitness class or play squash." These days, the Columbus alums still enjoy a physically active social life that includes hiking on area trails, such



ABOVE: This couple found recreation at Jesse Owens West Tennis Center.

RIGHT: Chris and Manuel Lugo walk along Columbus' Scioto Mile, stretching from the Arena District to German Village.





Molly Ranz Calhoun, husband Tom and sons Casey (left) and Cody enjoy the lanes at Pins Mechanical.

as those at more than 20 Columbus and Franklin County Metro Parks.

For McBride and Bergen, outdoor pursuits have a decidedly botanical theme. As students more than 30 years apart, both enjoyed walks around the Columbus Park of Roses. Besides that Clintonville locale, McBride now includes Franklin Park Conservatory and the downtown Topiary Park on his list of go-to recreation and relaxation sites. The Scioto Audubon Metro Park is a favorite of Bergen's.

As students in pursuit of recreation, others took to the lanes. "The old Ohio Union used to have a bowling alley in the basement," Reeves recalls. "The bowling machines were hard to maintain, but I remember Friday nights we used to go to the bowling alley, me and a couple people from my stadium dorm floor." Calhoun, another Ohio Union bowler, now enjoys sending the pins flying at Pins Mechanical, where she's sometimes joined by her three kids, two of whom are Ohio State students. ✨



Its 16-lane bowling alley was a prime attraction at the old Ohio Union, considered a national model for student gathering places when it opened in 1951. Students bid farewell to that union — and its bowling lanes — in 2005.



8:30 a.m.



9:30 a.m.



11:30 a.m.

Andra Zadnik Geno '07

This alum bought a one-way ticket from Columbus to Los Angeles the day after Thanksgiving 2009 and never looked back.

BY KRISTEN SCHMIDT
PHOTOS BY JO McCULTY

Click! In an instant, Netflix's galaxy of possibilities array themselves in neat rows of eye-candy tiles flickering on our flat screens. How do "Coco" and "Zootopia" reach our televisions? Andra Zadnik Geno '07 knows, in vivid detail.

Geno manages the journey of a film or television title from studio to screen. That could mean adding subtitles in any of 20-plus languages or making sure all six seasons of "Glee" were ready to launch globally on July 1. Geno's team sets in motion a queue-busting thousands of titles annually.

Geno discovered her professional strengths by working in different areas in the film industry — and learning along the way what she did not like (actually making movies) and what she did. "Once you find out what you're good at, you need to lean into it as hard as you can," says Geno, who majored in history at Ohio State and earned a master of fine arts in film studies at Boston University. "I'm really good at organizing and getting things in line and

making the wheels turn. When I realized that, I said, 'Let's buckle down and do this.'"

She'll mark three years at Netflix in November. Buckle up for a ride through an action-packed day with Geno — complete with an appearance by the Seven Dwarfs.

7:20 A.M. Rise and shine! I have a fairly quick morning routine — I shower, throw together an outfit and apply a quick swipe of mascara before I'm out the door. It's a short trip from my apartment in North Hollywood (NoHo to the locals) down to Sunset Boulevard. Netflix has a lot of fabulous programs for getting to work, so often I'll choose to hop on the subway or take an Uber instead of driving.

8:30 A.M. Netflix caters our breakfast, so I find myself eating there almost every day I go into the office. Sometimes I don't have to — as long as I have my laptop, cell phone and an internet connection, I can work from anywhere. After coffee and breakfast, I usually dive into my emails. I have a lot of cross-functional partners within Netflix:



2 p.m.



4:30 p.m.



6:30 p.m.

content acquisitions, legal, rights and our editorial creative team. Making sure that Netflix is a great experience for all our members requires a lot of different people working together, and I'm lucky to have such a stunning group of colleagues.

Today, I spent time setting up the various versions of Pixar films that will launch globally. Many titles have multiple versions where the picture and audio are "localized" — that is, tailored to different international audiences. For example, in "Inside Out," some characters watch a hockey game in the U.S., but in the rest of the world, they're enjoying a game of soccer — sorry, *football*. I love that I get to bring so much wonderful content to such a huge community of our members.

11:30 A.M. Netflix also provides lunch, but today I'm going to the Disney lot! Relationships are incredibly important in the film industry, and I love taking the time to visit the studios I manage. As a child raised on Disney movies, it's always a thrill to see the Seven Dwarfs holding up the roof

of the Team Disney building or the rooms where young women inked all the cels by hand when Walt was just getting started.

2 P.M. I'm back at Netflix for a team meeting, where we speak about the wins and challenges of the past two weeks. I get to share a recent workflow change designed to help our labs (the vendors who deliver content from the studios into the Netflix ecosystem) communicate directly with our quality control team. It might sound very technical, but it means less work for my team, so it's a win!

4 P.M. This is when I usually do my weekly audits for all my partners, making sure we're ready to launch all of our titles in the upcoming weeks. Our public relations and social teams promote non-original titles a great deal, so making sure we launch on the date they've promised is very important. I make sure we have all the assets and metadata — including synopses, ratings, episode titles — that we need for our members to be able to binge all of

"Homeland" in Italy or "Black Panther" in South Korea!

5 P.M. Meetings, emails and audits are enough to fill my day so that by 5 p.m., I'm ready to hop into an Uber and head home. Still, I might make time for friends post-work. There are plenty of interesting places to go in Los Angeles, and it's always fun to see friends and colleagues in a more informal setting.

6 P.M. Usually, I'll cook dinner for my husband and me — he does the dishes, so we consider that a fair trade. After we've cleaned up, I'll snuggle up with some knitting, a glass of wine and the most recent shows that my colleagues who handle Netflix Originals have launched. My two personal favorites are "Mindhunter" and "The Crown."

10 P.M. I try to be in bed by around 10 p.m. in case I have another early morning meeting with Europe. Netflix never sleeps, so I try to sneak mine in where I can! ✨



Karen Longbrake '83

This Buckeye finds new purpose and patience in training pups for lives of service.

LOOKING FOR A VOLUNTEER NICHE to connect with others, Karen Longbrake '83 discovered puppies — and the people whose lives they can change. Longbrake retired from Ohio State in 2015 and moved to Florida, where her quest to help others led her to Southeastern Guide Dogs. Based less than two hours from her home, the nonprofit with national reach trains dogs to assist veterans and people with vision impairments.

“Meeting people whose lives have been changed or, in some cases, saved gave me a new purpose,” says Longbrake, who worked in University Advancement for 20 years. “Their reactions to these dogs really touch my heart.”

She tells of a nursing student who lost her sight and a veteran who lost his will to live. Neither was comfortable leaving home — until their dogs helped lead them to the outside world and more fulfilling lives.

Longbrake’s own life has been changed by the two pups she’s raised for the organization. First came high-energy Plum, then more reserved Biker, who found a permanent home with this foster mom. (Only four in 10 of Southeastern Guide Dogs’ trainees advance to be paired with a person in need of assistance.)

In Biker’s case, the black lab will help Longbrake raise another puppy this fall. In the meantime, the summer months have found the pair nurturing puppies whose raisers are vacationing or otherwise unavailable.

As with all service work, giving means receiving. For Longbrake, one benefit is increased patience.

“Seeing your puppy behave as she should must be a lot like seeing a child finally get something you’ve been trying to instill for years. I remember taking Biker out to shops and restaurants — after wondering if she’d ever ‘get it’ — and her impulse control and manners were impeccable. I thought my heart would burst I was so proud of her.”

Another gift? “When I’ve been out with a puppy, I’ve seen people who look really grumpy just melt, which made me realize we have more in common with other people than we might think.” — LISA FURLONG ✨



POINTERS FOR YOU

Southeastern Guide Dogs notes some things to keep in mind if you think you’d like to raise a service dog:

First, verify your eligibility: After completing an online application, each potential volunteer undergoes a background check and at-home assessment.

Understand the commitment: Raising a puppy is a 24/7 role. If you have a job outside the home, your puppy must accompany you.

Don’t underestimate expenses: Most agencies require the raisers to pay for food, crates, beds and toys. Unlike Southeastern Guide Dogs, many groups don’t cover veterinarian bills.

Be prepared to say goodbye: Remember, a puppy you probably will come to love is needed in service. You can raise dogs sequentially.

Be open to sharing the role: Can’t commit to being a full-time puppy raiser? Sitters and co-raisers also are needed.

Karen Longbrake and Biker see eye to eye during a visit to the Southeastern Guide Dog campus in Palmetto, Florida.

Photos: Jo McCulty



1

Jewels for your journey

With autumn color approaching, there's no better time for a road trip across scenic Ohio. We've got 10 suggestions for gems to explore on Ohio State campuses.

**BY SHELLEY MANN
PHOTOS BY JO McCULTY**

1 Ohio Field site

At North High Street and East Woodruff Avenue, a half-acre park marks the site of Ohio Field, which served as the university's football field from 1898 until Ohio Stadium was completed in 1922. Yard markers and signage tell the history of the field, where Ohio State's first football hero, Chic Harley, once played.

2 Mirror Lake District

The restored Mirror Lake unveiled last year represents a return to the basin's origins as a bog with a clay bottom, sloping edges and native plants along the banks. New walkways, increased seating and upgraded Wi-Fi make the area a popular gathering place for faculty and students as well as returning alumni.

3 Mansfield Campus EcoLab

In recent years, the Mansfield campus has put energy into making its natural wetlands and woods more accessible, converting the area's natural diversity into a bigger asset. Linger on a vernal-pool boardwalk bridge to take in the peaceful wetlands and observe the varied plants, animals and insects that make their home there.

4 Buckeye Forest at Secrest Arboretum

Secrest Arboretum, a 110-acre outdoor laboratory and landscape garden on the Wooster campus, provides free family fun 365 days a year. The Buckeye Forest play area was designed to give children ways to interact with the natural world through an outdoor play fortress offering climbing rocks, concrete tunnels and an embankment slide.



3



5



7



9

5 Labyrinth Garden at Chadwick Arboretum

Modeled after a medieval French labyrinth, the Lois B. Small and Gladys B. Hamilton Labyrinth is a one-way path designed for contemplative walking. During walks on the labyrinth, the mind quiets, the breath slows and time stretches out, making this the perfect path for prayer or meditation.

6 Underground Railroad stops

Two sycamore trees flanking John H. Herrick Drive once marked an Underground Railroad trail along an old stream linking Mirror Lake to the Olentangy River. As Chadwick Arboretum Director Mary Maloney explains, moisture-loving sycamores have a light, marbled bark that glows in the moonlight, making them good markers for the streams and rivers that provided a natural route for former slaves.

7 Rodrick Bridge

Located at Ohio State Newark, the Rodrick Bridge is the only known example of a “Whipple Arch” bridge not located in New York state. Patented by engineer Squire Whipple, this rare type of cast-iron bowstring truss bridge was built by Coshocton Iron Works in Coshocton County, Ohio, and later relocated to Newark, where it carries a pedestrian and bike path over a stream.

8 Urban Arts Space rooftop garden

Open for tours, the gallery’s vibrant rooftop garden provides fantastic views of downtown Columbus. Located atop the former Lazarus Building, the rooftop garden is home to hearty perennial sedums, grasses, herbs and wildflowers. During warm-weather months, it attracts butterflies, bees, crickets, ants and even ducks.

9 Orton Hall grotesques

The bell tower gets all the glory, but Orton Hall, one of the university’s oldest buildings, also is home to 24 grotesques well worth ogling. Situated in a ring around the bell tower, the stone carvings represent the prehistoric creatures that lived in Ohio during ancient times.

10 Spirit of Women Park

On the bustling medical campus, the Chlois Ingram Spirit of Women Park commemorates the strength of women and provides a restorative space for visitors to relax and reflect. The park’s centerpiece is a 175-foot crescent reflecting pool with a fountain that falls on thousands of glass tiles depicting drawings and letters to women from family and friends.



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ALUMNI ASSOCIATION

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Keeping us on course

BEFORE CELL PHONES AND LAPTOPS, students kept their calendars and class schedules in their spiral-bound *Dates and Data* notebook. I think I received my first one at freshman orientation during the summer of 1970 — and I bought one every year thereafter. Included were photos of the Oval, the old Ohio Union, Mirror Lake and other landmarks as well as seasonal events. And then there were helpful hints for campus living such as, “Don’t come back from spring break without your Frisbee.” I get quite nostalgic flipping through these old guides and remembering how we were “back then.” — **JOE WELLMAN '74** *



JOE WELLMAN '74

Joe and other *Dates and Data* fans will be happy to know this handy resource, first published in 1953, is going strong. It is still produced — on paper, even — by the Ohio Union Activities Board.



A LITTLE ABOUT JOE: While he didn’t mention it, we discovered in preparing this story that Joe Wellman is the mayor of Washington, Indiana, home to about 12,000 residents. He’s completing his second four-year term in December, having announced last year that he had made the hard choice to pursue hobbies and travel rather than a third term. A *Washington Times Herald* story at the time recounted the mayor’s accomplishments, including overseeing a major annexation and working to bring hundreds of new jobs to the community.

SHOW US YOUR MEMENTOS Do you have a storied keepsake from college that you can’t part with? Send us a photo and the tale of your object, and we’ll consider it for a future issue. theobject@osu.edu.

MEET YOUR BOARD

The drive to strive

“DEDICATED TO WHAT I BELIEVE IN.” That, in her own words, describes Janelle Jordan '98 to the core, and her dedication to Ohio State and her Buckeye family is undeniable. Consider these truths: Jordan graduated with a triple major in logistics, marketing and international business. In a nine-month period, she earned a varsity letter and set a school record in rowing. She serves as vice chair of the alumni association board of directors and as a leader of the Alumni Club of Minnesota. With the goal of “helping people and processes thrive,” she founded Jordan Solutions LLC in 2015 after 17 years in leadership at General Mills. She credits her Ohio State experience for instilling that desire in her, and for motivating her to apply it personally and professionally to this day. — DAN CATERINICCHIA

Why do you serve on the OSUAA board?

I truly believe it will be one of the greatest honors of my life. I'm representing my community and my family — my parents, siblings, uncle, aunt and cousins. I'm representing my friends, my high school classmates, my fellow alumni and colleagues in Minneapolis, and the nearly 570,000 Buckeye graduates around the world I have not yet met. I have such a deep passion for the connections that Ohio State enabled and want to help other people realize them, too. I also feel very fortunate that I have the time and flexibility to do that.

Who helped your journey as an undergrad?

I was on the rowing team at Ohio State toward the end of my undergraduate career. I left for a nine-month internship, so when I came back, many of my friends had graduated. I became a varsity rower with Andy Teitelbaum as the head coach; he's still there today. In rowing, you have an advantage if you're tall and strong, and I'd been an athlete most of my life, so I started doing it and moved to varsity when they needed one more rower. I started in September and by late May broke the school record on the rowing machine for 2000 meters. I spent hours in the tank working on oar positions and the finesses of working on the water, and I remember Andy and the assistant coaches spending countless afternoons helping me. I'd had wonderful, diverse experiences as an undergraduate to that point, and I was proud to represent the university in this different way. I am grateful to Andy for coaching me, both as a rower and as a person. About a year ago, I was in town for a board meeting, and I went out on the water with the team for a 7 a.m. practice. It was a pretty surreal experience to be an alumna out on the water with the same coach I had 20 years before.

How did your Ohio State experience prepare you for professional success at General Mills and with your own company?

From a skills standpoint, my business degree was incredible. I felt so well prepared by Fisher College of Business for General Mills and for my MBA work at the University of Minnesota. But when I think about what's special at Ohio State, there's the strong execution. As a logistics major, I have always marveled at the fact that at Ohio State commencement, you get your diploma. I have worked with other schools, and they talk about getting a diploma mailed weeks later. At Ohio State, you figure out a way to do it and you do it. It represents just doing this amazing thing because you believe that it should be done. At Ohio State, the expectation of excellence is so great, and that sticks with you your whole life.

Your Twitter bio is “passionate about girls’ self-esteem, holistic health, and helping people and processes thrive.” The last part is from your business, but what about the first two? In our culture, girls and boys are raised differently. Many times, boys are encouraged to take risks, and girls need to be polite. My daughters are 9 and 12, and I teach them to take risks. I'm also the founder and troop leader for two Girl Scout troops. Whenever I can, I mentor young girls. In the last few years, I have volunteered more than 1,000 hours for the Girl Scouts organization, because I believe in it. With regard to holistic health, I've been managing an autoimmune disease with a naturopath the past four years. On that journey, I've learned an incredible amount about holistic healing and anti-inflammatory eating. It's amazing what a difference it makes to reduce our body's exposure to chemicals, both in food and in our environment, to give it a chance to heal itself as it was made to do.

DAN CATERINICCHIA is assistant vice president for strategy and administration in the Office of Advancement.



Photos: Jo McCully and Kevin Fitzsimons (Haynes)

Association board welcomes three

THESE NEW MEMBERS of The Ohio State University Alumni Association Board of Directors take office in September. They succeed Jeff Kamin, Liza Reed and Kristin Watt, whose five-year terms are expiring.



Catherine Allendorf Lanning '00, '04 MBA

Senior vice president for property and casualty marketing for Nationwide, Columbus



Leonard L. Haynes III '75 PhD, '90 HON

Senior advisor, Office of the Undersecretary, U.S. Department of Education, Washington, D.C.



Bernie Savarese '11 MBA

Assistant vice president for student success, New York University, New York City

CALL FOR NOMINATIONS Nominations for three candidates to join the board in fall 2020 will be accepted from November 1 through December 15. The nominating committee seeks experienced leaders, diversity in all respects, professional background and achievements, board experience and connections with Ohio State and the alumni association. Active alumni association members are eligible for nomination. go.osu.edu/alumniBOD20

The Ohio State University Alumni Association, Inc.

OUR VISION

To be the heart of the Buckeye alumni community, inspiring and cultivating engaged citizens.

OUR MISSION

Through time and change, we enrich firm friendships among Buckeye alumni and The Ohio State University.

OUR CORE VALUES

- **Tradition.** We believe in Ohio State. We cherish the university's rich and vibrant history and work to enhance its reputation.
- **Integrity.** We keep our promises. Our reputation rests on honesty, fairness and treating everyone with respect.
- **Service.** We go the extra mile. We provide the highest levels of service to our members, growing alumni community and the university.
- **Quality.** We expect to be held to standards of excellence in everything we do.
- **Diversity.** We value diversity. We embrace inclusion in everything we do.
- **Innovation.** Our success depends on continuous improvement, adaptation and embracing change.

BOARD OF DIRECTORS

Chair: Kristin Watt '86, '89, Columbus

Vice Chair: Janelle Jordan '98, Minneapolis, Minn.

Vice Chair: Liza Reed '06, '10, Pittsburgh

Treasurer: Catherine Baumgardner '84, '86, Lancaster, Pa.

Secretary: Jim Smith '91, Columbus

MEMBERS

Rosa Ailabouni '01, '01, Columbus; Vaughn Broadnax '84, Carmel, Ind.; Kelley Crooks '78, San Antonio, Texas; Christopher Culley '76, Columbus; Katy Endsley '04, '04, Baltimore, Ohio; Mark Eppert '88, Atlanta; Craig Friedman '89, Columbus; Matthew Hall '93, Columbus; Margie Harris '82, Houston; Jeff Kamin '72, Atlanta; Michael Lee '06, San Francisco; Stacy Rastauskas, Worthington, Ohio; Gilda Spencer '83, Vernon Hills, Illinois

EX OFFICIO

Amy Rohling McGee '92, '91, Columbus
Molly McCann, student member, Chagrin Falls, Ohio

ALUMNI ADVISORY COUNCIL

Chair: Amy Rohling McGee '92, '91, Columbus

Vice Chair: Keith Key '80, Powell, Ohio

ALUMNI REPRESENTATIVES TO THE REGIONAL CAMPUSES

Lima: Chad Metzger '97, Wapakoneta, Ohio

Mansfield: John Shuler '85, '85, Galion, Ohio

Marion: Roger George '72, '75, Marion, Ohio

Newark: John Whittington '74, Granville, Ohio

ALUMNI REPRESENTATIVES TO THE COLLEGES

Arts and Sciences: Stephen Habash '74, '78, Dublin, Ohio; Fisher College of Business: Sandra Harbrecht '74, '82, New Albany, Ohio; Dentistry: Robert Haring '85, '87, Dublin, Ohio; Education and Human Ecology: Robert Grimm '74, Zionsville, Ind.; Engineering: James Dickey '83, Westlake, Ohio; Food, Agricultural and Environmental Sciences: Bruce Kettler '87, Westfield, Ind.; John Glenn College of Public Affairs: Mari-jean Siehl '77, '06, Hilliard, Ohio; Medicine: Joel Goodnough '75, '79, Jackson, Ohio; Moritz College of Law: Amy Kellogg '86, Avon, Ohio; Nursing: Kitty Kisker '66, '67, Columbus; Optometry: Christopher Smiley '01, Westerville, Ohio; Pharmacy: Marialice Bennett '69, Columbus; Public Health: Stephen Smith '77, Antioch, Ill.;

Social Work: Amy Rohling McGee '92, '94, Columbus; Veterinary Medicine: Tom Wood '87, Lorain, Ohio

ALUMNI REPRESENTATIVES TO VICE PRESIDENTIAL OFFICES

Academic Affairs, Tahlman Krumm Jr. '66, '74, '78, New Albany, Ohio; Athletics, Stephen Chappelle '74, '77, Pataskala, Ohio; Distance Education and eLearning: Steve Lieb '09, Columbus; Enrollment Services: Bradley Myers '77, '80, Columbus; Graduate College: Brandon Sullivan '04, '12, Columbus; Research: Liza Reed '06, '10, Pittsburgh; Student Life: Kelley Griesmer '93, Gahanna, Ohio '80, Worthington, Ohio; Undergraduate Education: Kathryn Koch '01, Westfield, Indiana; University Communications: Thomas Murnane '70, '78, Agoura Hills, Calif.

OTHER AREAS REPRESENTED

Board of Directors, Craig Friedman '89, Columbus
Foundation Board: Keith Key '89, Powell, Ohio
WOSU Public Media: Karen Ickes '75, '79, Powell, Ohio



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January 25–February 1

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NORDIC MAGNIFICENCE

May 17–27, 2020

\$4,495 (Copenhagen)

Discover Copenhagen, Oslo and Bergen — plus snow-dusted peaks, pretty canals and a Renaissance palace — on this Nordic adventure!



EXPLORE THE MIGHTY SAINT LAWRENCE SEAWAY

June 4–16, 2020

From \$5,495 (Quebec City)

Experience the brilliance of springtime in the gulf during this 11-day adventure traversing the Saint Lawrence Seaway, famed for its incredible whale-watching opportunities.



GREAT PACIFIC NORTHWEST

July 5–13, 2020

From \$3,899 (Portland)

Discover the Pacific Northwest while cruising the Columbia and Snake rivers on this weeklong journey aboard the *American Empress*.



ICELAND FOR BUCKEYE FAMILIES

August 4–9, 2020

\$1,875 (Reykjavik)

From the warmth of the Blue Lagoon to the thundering waterfalls, experience Iceland on a six-day Buckeye family adventure. Designed for travelers age five years and older.



PARIS FEATURING THE AFRICAN AMERICAN EXPERIENCE

September 26–October 4, 2020

\$3,595 (Paris)

Learn how African American culture shaped Paris in the Jazz Age on this seven-night adventure. Visit Montmartre, tour the Louvre and cruise the Seine!

For more information about these and other tours:

Call Debbie Vargo, Laura DeRose or Addie Natalie at 614-292-2372 or 800-852-8687 or email ADV-AlumniTours@osu.edu. Prices are per person based on double occupancy. Dates, itineraries and prices are subject to change. Airfare is not included unless otherwise noted.



ROLE MODELS, ONE AND ALL

Join The Ohio State University Alumni Association
in congratulating these outstanding graduates.

ALUMNI MEDALIST AWARD

Rattan Lal
Columbus, Ohio
PhD, Agronomy, 1968

DAN L. HEINLEN AWARD

Lori Herman
Belleville, Michigan
BS, Industrial and Systems
Engineering, 2000

DIVERSITY CHAMPION AWARD

Quinn Capers IV
Dublin, Ohio
MD, Medicine, 1991

JOSEPHINE SITTERLE FAILER AWARD

Amy Wittmann
Dublin, Ohio
BS, Elementary Education, 1980

RALPH DAVENPORT MERSHON AWARD

Michelle "Shelley" Graf
Columbus, Ohio
BS, Physical Therapy, 1983

ARCHIE M. GRIFFIN PROFESSIONAL ACHIEVEMENT AWARD

Paul Stromberg
Westerville, Ohio
BS, Zoology, 1967
PhD, Parasitology, 1973
DVM, Veterinary Medicine, 1978

WILLIAM OXLEY THOMPSON ALUMNI AWARD

Naomi Adaniya
Washington, D.C.
MA, Geography, 2010
MA, Public Health, 2013
PhD, Public Health, 2016

ROBERT M. DUNCAN ALUMNI CITIZENSHIP AWARD

Herbert Robinson
Cincinnati, Ohio
BS, Industrial and Systems
Engineering, 1977

E. GORDON GEE SPIRIT OF OHIO STATE AWARD

Naval Reserve Officer Training Corps

BE INSPIRED

Read stories about these outstanding alumni at go.osu.edu/2019AlumniAwards, in upcoming issues of *Ohio State Alumni Magazine* and on social media.

NOMINATE A BUCKEYE

Ohio State alumni are changing the world — close to home and on a global scale. Consider nominating a Buckeye you know for a 2020 Alumni Award. Nominations will be accepted January 15 through March 15, 2020, at go.osu.edu/AlumniAwardNominations.



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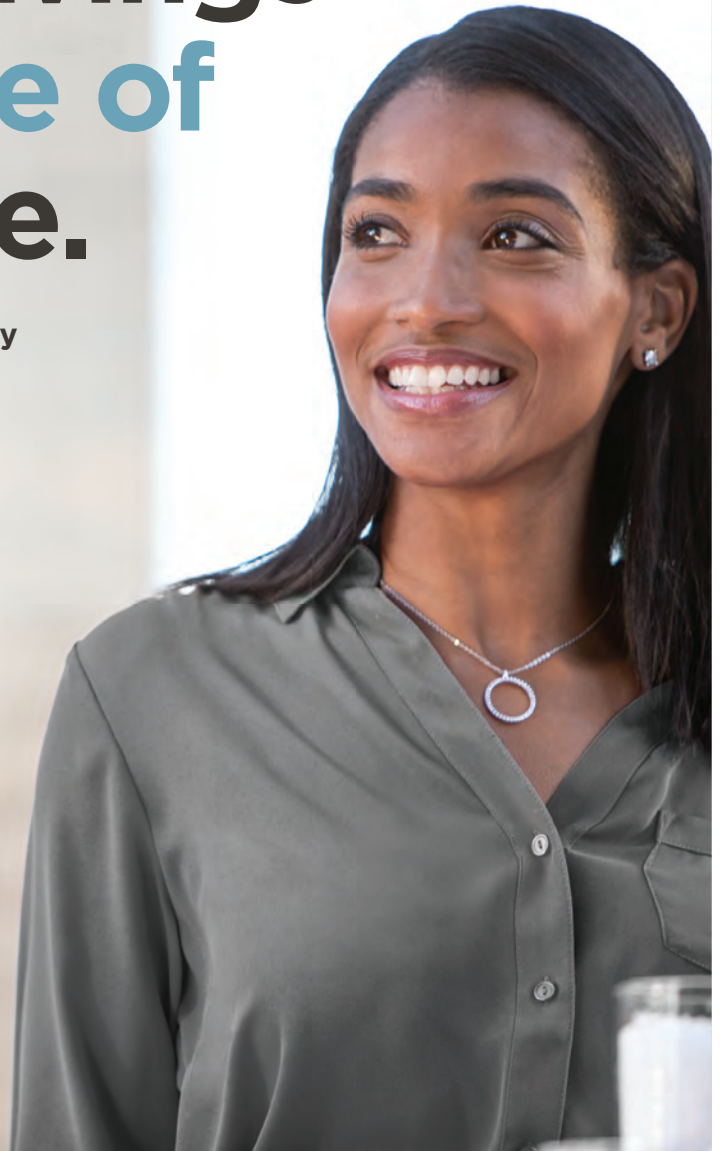
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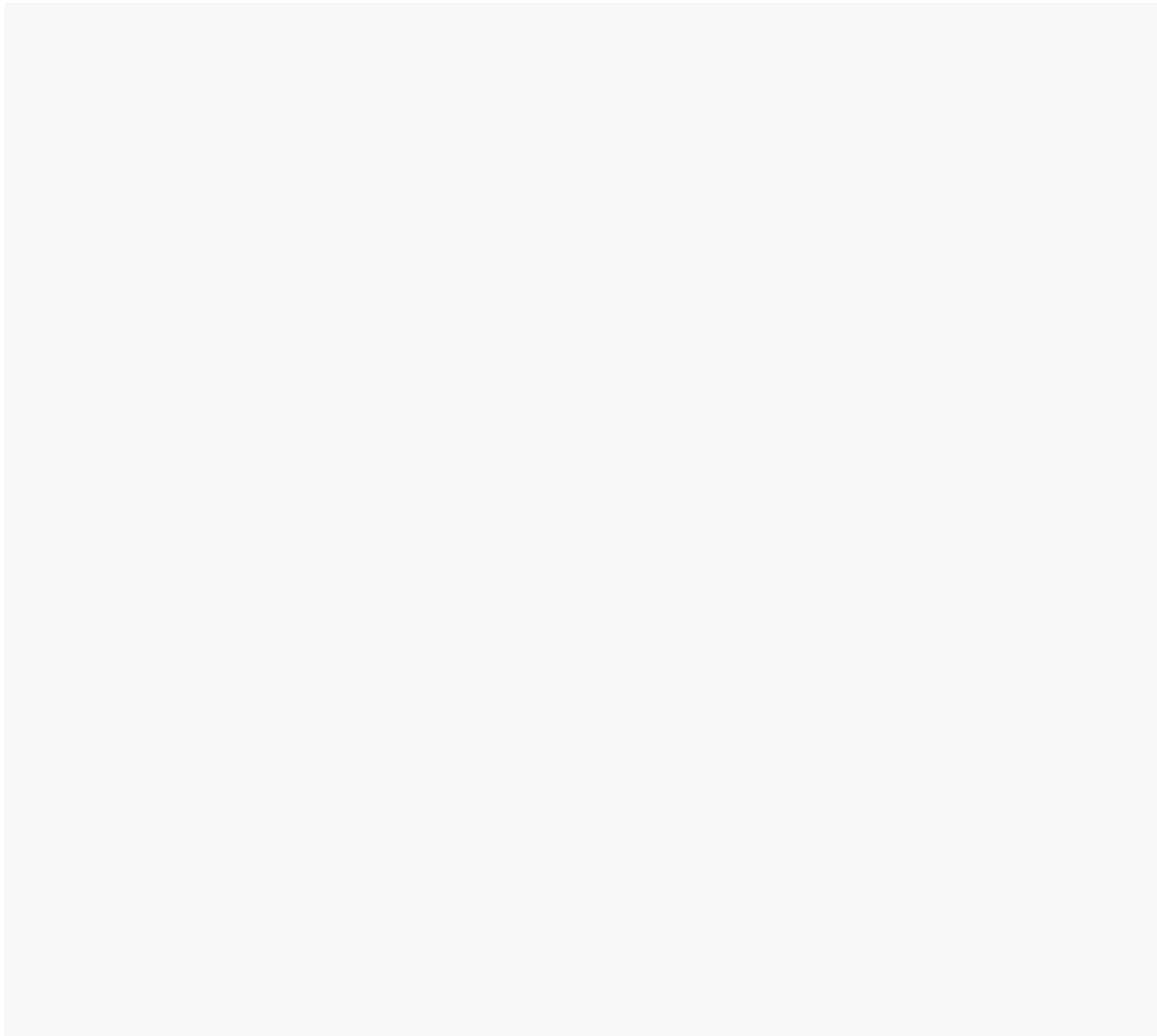
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Rock-solid pride

Whether close to home or off in a distant land, we all find there's an "I-O" poised to complete our every "O-H." Because as Buckeyes, we're part of a powerful collective, one that cares deeply about each person who makes up our community as well as our neighbors around the globe. Here, Ohio State seniors Blake Swift and Isabel Staats '19 share the peace they found in a panoramic view from New Hampshire's Mount Sunapee. Gazing down at the crater of an ancient volcano, now home to aptly named Lake Solitude, they beckon us with an inspiring "O-H." Our response reflects a shared history of more than 150 years, one comprising moments and memories we hold dear. "I-O."— **TODD JONES** ✨

 **HOW DO YOU SPELL O-H-I-O?** Upload your best pose, and we'll consider it for a future issue of *Ohio State Alumni Magazine*. osu.edu/O-H-I-O



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