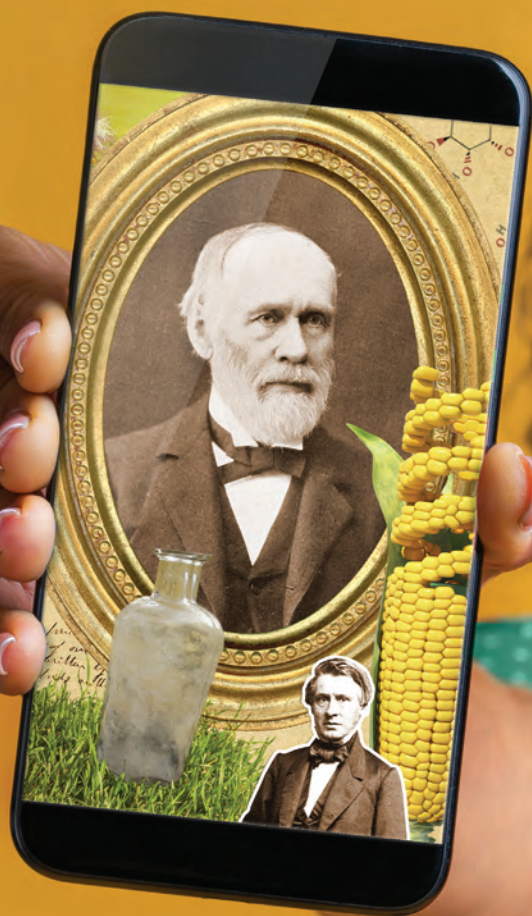


Spartan

MICHIGAN STATE UNIVERSITY ALUMNI MAGAZINE

FALL 2020



Beal's Appeal

How a record-breaking, 160-year-long experiment keeps inspiring the curious and scientific



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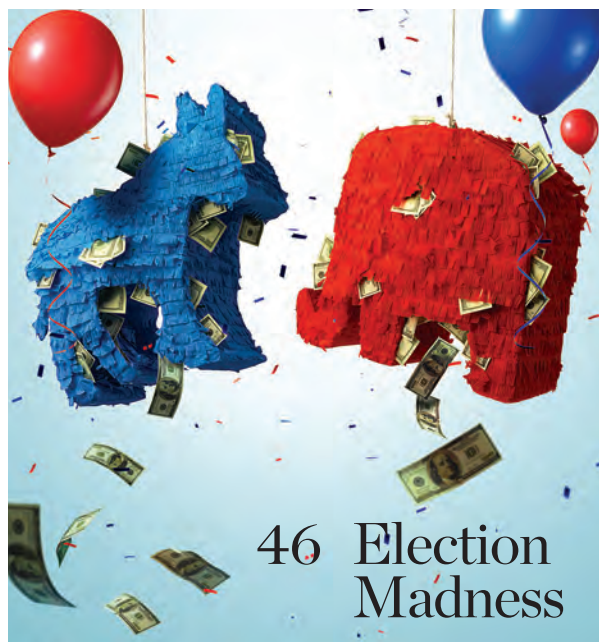
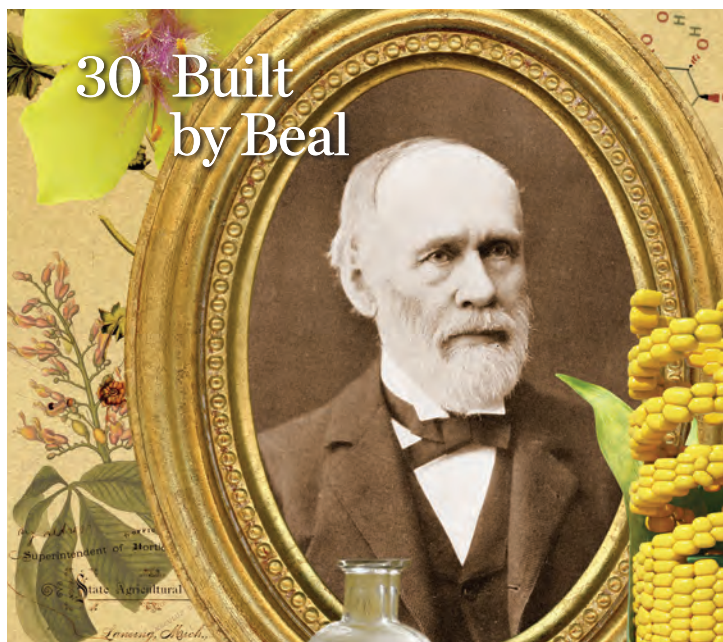
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Spartan

FALL 2020



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ABOUT THE COVER: A student pulls up a feature article about William James Beal on her cellphone. Beal launched the world's longest continuing science experiment in 1879, here at MSU (then MSC). It tests the viability of seeds long buried in bottles. Photos: [MSU](#) / [MSU Historical Archives](#) and [Getty Images](#)

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14 Summer Rewind

Like the rest of the world, the team behind Spartan magazine had to be flexible this spring and summer as the coronavirus pandemic upended office life. Unfortunately, we made the difficult choice to not print the summer 2020 issue. That did not stop us from sharing Spartan stories, however. We developed a new online space for editorial content and published the summer 2020 issue digitally.





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“Each first-year and transfer student will now have the support of a professional and a peer mentor during the fall 2020 semester. This program helps encourage social connections and academic success.

Fellow Spartans...

My first year as president of Michigan State University concluded, and my second year began, in a set of circumstances I would never have envisioned. We at MSU have been working diligently to manage the demands of the COVID-19 pandemic while continuing to move the university forward in areas such as strategic planning and diversity, equity and inclusion.

We began the semester with the expectation that most of our undergraduates would study from home and added a support and mentoring program for new students called Circles of Success. Each first-year and transfer student will now have the support of a professional and a peer mentor during the fall 2020 semester. This program helps encourage social connections and academic success.

While instructional modalities are different, total enrollment appears at this writing to be close to last year's mark at just under 50,000. Our student body diversity, reflected in the number of students of color enrolled from Michigan and around the country, looks to be at its highest recorded level, about a quarter of our total.

In other welcome news, some recent rankings demonstrate MSU's continued excellence. U.S. News

& World Report again put MSU's undergraduate and graduate supply chain management programs at No. 1 nationally. Among public universities, MSU ranked No. 1 for study abroad, No. 3 for service learning and No. 4 for learning communities.

Money ranked MSU in the top 7% of schools in the nation. For educational quality, affordability and alumni success, MSU surpassed eight Big Ten universities and two Ivy League colleges. Money said MSU's graduation rate of 81% is 8% higher than expected for students with similar test scores and economic backgrounds. Washington Monthly, meanwhile, ranked MSU No. 11 in the Midwest in “bang for the buck.”

As you enjoy reading about MSU's proud legacy of research in these pages, know that we will continue sustaining the university's momentum across our vital work in education, discovery and outreach.

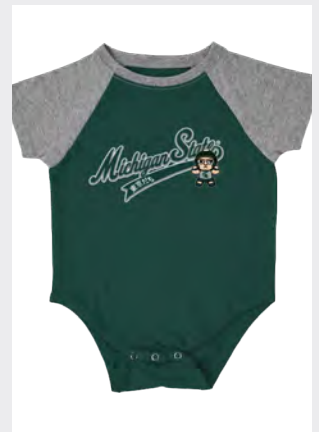
Your support in all its forms is vital to the university, and I thank you. I am optimistic all of us will emerge from this pandemic with a renewed appreciation for the MSU experience and the Spartans who make it possible.

A handwritten signature in black ink, reading "S. L. Stanley Jr." in a cursive style.

Samuel L. Stanley Jr., M.D.

PRESIDENT, MSU

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FROM BEING SPARTANS**



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Summer 2020 Spartan magazine content is available online at: go.msu.edu/summer-20

FROM THE BANKS

Each day we decide. We decide to embrace or resist, to lean in or to walk away. Ultimately it is up to us—to live our values and be truly who we are meant to be.

Inside this issue you will find stories of resilience, grit, curiosity, and the opportunity to make a choice. My favorite came to life one afternoon, well before we were all working from home.

During a typical conversation with a colleague I was told a story about a bold MSU scientist and his passion for experimentation. My co-worker said, “We’ve got to do a story about this experiment.” His enthusiasm inspired me, after all he was talking about William James Beal. The whole conversation filled me with hope.

Beal’s bottle experiment perfectly characterizes his ambition and curiosity. It was his grand attempt to advance science, contribute to understanding and to unlock some of nature’s mysteries. But that is only the start of the story. The far more interesting pieces are about the time in which he lived, the people who influenced his work, and his resolve to defy convention while adhering to a set of values.

You will find that Beal’s story explains how many of our Spartan values began to take hold. It is one of our origin stories. What he built more than a century ago persists today. He was a Spartan before we were Spartans. He shows us we can do anything we set our minds to—together we will—and with resolve we can move forward through our challenges and into the future.

Stephanie Motschenbacher, '85, '92
EXECUTIVE EDITOR

Spartan

EXECUTIVE EDITOR

Stephanie Motschenbacher, '85, '92

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TO SUBMIT LETTERS Email SpartanMagazine@msu.edu. Or send mail to: Editor, 535 Chestnut Rd., #300, East Lansing, MI 48824. We reserve the right to select and edit letters for length and clarity.

LETTERS

PROUDEST MOMENT

I was making sure those ventilators (mentioned in the COVID article) were being built at the GM Kokomo facility. It was one of the proudest moments in my career. We went from getting requirements and getting equipment delivered in days. I graduated with a degree in computer engineering in 1993.

Brian Siemen, '93
WASHINGTON, MI

CONFIDENCE IN MSU

I notice some reluctance to contribute to MSU after the sex abuse scandal. But I take the long view. I've already committed to support MSU in my estate plan. I'm confident MSU will survive as long as America does, and I'm confident MSU will address the abuse issue.

I recognize my departmental dean, John B. Kreer, in the "ham radio" pho-

to from the Winter 2020 issue. I am indebted to him, for his support of my transition from college to industry.

Scott Eiler, '83
BOTHELL, WASHINGTON

MISSING FOOTBALL

As we all deal with the disappointment of not being at Spartan Stadium this fall, I thought some Green and White nostalgia might be a pleasant diversion.

I've only missed two MSU home football games since 1971. When I tell people this, I typically get one of two reactions: (1) "Are you serious? Why such a fan?"; or (2) "Which two games and why?"

The first game I missed was while I was in grad school in 1978, when we were hosting a regional meeting of the Midwestern community psychologists at a camp in northern

Michigan. The other was the Miami of Ohio game on September 24, 1994, when I had to make a presentation at a conference in Brussels, Belgium.

My most memorable game was the 16-13 win over No. 1-ranked Ohio State in 1974. The most painful? The 2006 loss to Notre Dame during a rainstorm.

And to answer the first question, why am I such a fan? Well, there's nothing like a sunny autumn Saturday, tailgating with friends and watching a great Spartan victory.

Hang in there Spartans.

Read Marty's full essay at: spartanfanatic.com/blog/

Marty Kushler, '75, '77, '81
WIXOM, MI



MARK YOUR CALENDAR FOR MSU'S GIVING DAYS

DEC. 1, 2020 – GIVING TUESDAY: MSU will be participating in the global day of giving on Dec. 1. Join us and support one of the projects on our CrowdPower platform. For more information: givingto.msu.edu/crowdpower

MARCH 16, 2021 – GIVE GREEN DAY: Join Spartans from around the world in showing support for students at MSU on Give Green Day! For more information: watch our social channels or visit givingday.msu.edu





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"SUPPORT FROM THE COLLEGE OF NURSING EMERGENCY FUND ALLOWED ME TO CONCENTRATE ON MY STUDIES DURING FINALS."



GIFTS FROM ALUMNI LIKE **SEKEITA LEWIS-JOHNSON, '97**, HELPED STUDENTS LIKE **ZACH COLLEN, '20**, SURVIVE A TOUGH TIME.

IT'S ABOUT **HARD WORK,** **FAMILY** AND **A NETWORK**

Gifts to aid students who experienced financial difficulty during the novel coronavirus pandemic, made a world of difference for recent College of Nursing alumnus Zach Collen.

"Support from the College of Nursing Emergency Fund allowed me to concentrate on my studies during finals," says Zach who couldn't have met his monthly expenses otherwise.

Sekeita Lewis-Johnson, '97, stepped up to support the next generation of Spartan nurses, saying: "I support MSU because others supported me. As a first-generation college student, I knew nothing about college living. Many people contributed financially along the way. Even still, I had hard times. I show gratitude by paying it forward."

VISIT

givingto.msu.edu/CrowdPower

*Especially on Giving Tuesday,
December 1, 2020, or Give Green Day
on March 16, 2021.*



Beneath^{the} Pines

News & Views from MSU



Signs of the Times

Hopefully someday soon these signs will not be needed. But, until then...

Answering the Call for PPE

By Zach Richardson

When COVID-19 forced campus to shut down in March, faculty, staff, students and academic units across the community sprang into action to provide personal protective equipment to front-line health workers.

To date, MSU has distributed 12,336 face shield and mask combinations and nearly 1,000 visor attachments through the Food Processing and Innovation Center. The personal protective equipment has been delivered to many health care and agricultural groups throughout Michigan.

“This really shows that collaboration is not limited at all to research,” said Nathan Tykocki, assistant professor of pharmacology and toxicology in the College of Osteopathic Medicine, who started producing 3D masks in March. “It expands to every aspect of the university and the willingness of people to work together to help when it’s needed.

Tykocki was inspired to create masks after the state’s Office of Environmental Health and Safety sent out an urgent request to bring together any and all

personal protective equipment supplies that were unused in MSU labs to help out local hospitals.

Organizations that have received personal protective equipment from MSU include Sparrow Health Systems, Providence Hospital, Hurley Medical Center, Bronson Hospital, Michigan Dental Association, Kent Quality Foods, Michigan Turkey Producers, Michigan Farm Bureau, Peterson Farms, DeRuiter Farms, Smeltzer Orchards and River Ridge Farms.

TELEMEDICINE AND COVID-19

A study by Bree Holtz, an associate professor in the Department of Advertising and Public Relations, suggests that most people perceive telemedicine as a satisfactory way to receive routine care. New users regard the service slightly different, mostly because their first use was necessitated by the pandemic. Those users were also more inclined to want to see their primary care provider in person compared to those who had used telemedicine before.

12,336

Number of face shield and mask combinations distributed by the MSU Food Processing and Innovation Center



NEW PROGRAMS FOR K-12 EDUCATORS

MSU has created a number of support programs and materials to help Michigan's K-12 school districts prepare for online instruction this fall.

Among these programs is the Foundations of Successful Online Teaching & Learning series that was collaboratively developed by MSU's Enhanced Digital Learning Initiative and Okeemos Public Schools. It was designed to help teachers understand and adopt the mindsets of successful online instructors. The tools are one example of MSU's commitment to support student success far beyond the MSU classrooms.

**MORE ON
WEB** | Learn more:
go.msu.edu/k12



COULD THE PANDEMIC CHANGE HOW WE SPEAK?



That's the question being asked by a team of researchers at Michigan State University, led by Associate Professor Suzanne Wagner and Assistant Professor Betsy Sneller.

They're studying how social distancing is changing the way we speak and the stories we tell.

The MI COVID Diaries project, run by MSU's Sociolinguistics Lab, has been collecting recorded speech from Michigan residents since April to track changes to language during the COVID-19 pandemic.

"Part of what we want to do is measure how language is changing in real time," Sneller said. "By getting recordings from people at the beginning of this crisis and then throughout, we can see how their speech has changed."

Historically, events like natural disasters and war have proven to have big impacts on language. Wagner and Sneller expect the coronavirus pandemic will have an impact too.

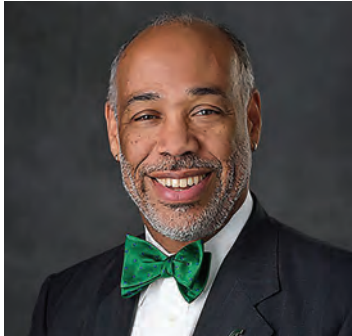
The MI COVID Diaries project is supported by funding from MSU's College of Arts & Letters, the MSU Sociolinguistics Lab and a summer faculty fellowship to Wagner. Speech-to-text processing is supported by a Google Cloud research grant to Sneller.

**MORE ON
WEB** | Learn about MSU's response to COVID-19:
msu.edu/together-we-will

“By getting recordings from people at the beginning of this crisis and then throughout, we can see how their speech has changed.”

1,000

Number of
online fitness
classes available
through MSU
Recreational
Sports and
Fitness Services



Dean of nursing inducted into distinguished academy

College of Nursing Dean Randolph Rasch will be a part of the latest class of fellows to be inducted into the American Academy of Nursing at its virtual conference this October. The academy currently consists of 2,700 fellows from across the world and hundreds of applications are reviewed each year. In all, this year's class consists of 230 fellows.

In addition to this honor, Rasch is also a fellow in the American Association of Nurse Practitioners.



COLLEGE OF LAW MILESTONE

As a new class of future Spartan lawyers began its first week of law school, the MSU College of Law also starts a new chapter in its 129-year history by completing its full integration into the university on Aug. 17, 2020. The College of Law's history dates back to 1891 when the Detroit College of Law was established.



MSU & THE UNIVERSITY OF NIGERIA, NSUKKA: CELEBRATING 60 YEARS OF TRANSFORMATIVE PARTNERSHIP



Michigan State University President John A. Hannah (third from front) marches in the opening convocation procession of the University of Nigeria at Nsukka in Eastern Nigeria, in 1960.

In the 1960s, a groundbreaking relationship between Michigan State University and Nigeria shaped MSU's approach to international engagement.

2020 marks the 60th anniversary of the establishment of the University of Nigeria, Nsukka (UNN)—the first indigenous Nigerian university and Africa's first land-grant university. MSU's role in the ambitious project began when Nnamdi Azikiwe—then governor and later, the first president of Nigeria—invited MSU President John Hannah and MSU faculty to come to Nigeria to help establish a new university inspired by the land-grant model.

From 1960-1967, nearly 150 MSU faculty and staff collaborated with Nigerian partners to build and operate UNN with a full curriculum in arts and letters, sciences, engineering and agriculture. While there were significant challenges along the way, in the end the project has been a success. Today UNN is ranked among Africa's top universities.

The lasting impact of the partnership is also evident across MSU. The experience and expertise that MSU faculty gained in

Nigeria became the foundation for MSU's world-renowned African Studies Center. Currently, MSU has more than 200 faculty engaged in research, teaching and partnership across the African continent. MSU regularly teaches more African languages, produces more Ph.D.s on Africa, and offers more study abroad programs in Africa than any other U.S. university.

The UNN project was the first major international initiative for MSU, beginning a legacy of intentional global engagement that has helped establish MSU as one of the world's top 100 universities. Perhaps most importantly, the partnership established how MSU works internationally, with a commitment to ethically and equitably collaborate with local partners to innovate and solve problems.

The partnership between MSU and UNN is still strong after six decades. The collaborations are focused on making real-world community impact, thereby fulfilling both institutions' land-grant missions to find practical solutions to shared global challenges.

MSU & UNN

Share the same school colors: green and white.

Partner in many areas of research and outreach:

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- Youth and sport
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Founding members of the Alliance for African Partnership

MORE ON
WEB

Learn more about MSU's work in Africa at:
africa.msu.edu

Summer Rewind

Catch up on past issues of Spartan magazine in a new online space for editorial content.

Like the rest of the world, the team behind Spartan magazine had to be flexible this spring and summer as the coronavirus pandemic upended office life. Unfortunately, we made the difficult choice to not print the summer 2020 issue. That did not stop us from sharing Spartan stories, however. We developed a new online space for editorial content and published the summer 2020 issue digitally.

The new story hub

This new alumni story hub will be the online home to Spartan magazine while also hosting a few online-only pieces. We will continue printing three issues yearly, and the hub will allow us to share even more Spartan stories. To catch up on what you might have missed from the summer issue, we recommend reading two of our favorites: the profile of Kinitra Brooks and the feature about Spartans who answered the call to fight COVID-19.



Profile of Endowed Chair, Kinitra Brooks

We profiled Kinitra Brooks, the Audrey and John Leslie Chair in Literary Studies at MSU, in Growing the Seeds of Knowledge. Brooks brings vast new worlds to the old-school field of English by studying Afrofuturism, where she intertwines the past with the future. Read the story about Kinitra Brooks at: go.msu.edu/brooks

Spartans Answering the Call to Fight COVID-19

The coronavirus pandemic presented unique and new challenges around the world. In Spartans Answering the Call, we featured Spartans who stepped up in the fight against COVID-19. From nurses on the front line to distillers using their resources to make hand sanitizer, MSU alumni showed they were ready to help in the fight. Read the story about Spartans fighting COVID-19 at: go.msu.edu/covid-call

MORE ON
WEB

To see all the summer articles:
go.msu.edu/summer-20

SIX MSU PROGRAMS RANK IN THE TOP 25 GLOBALLY





MSU to study the effects of droughts

Sarah Evans receives a \$1.4 million grant from the National Science Foundation

Biologist Sarah Evans has received a three-year, \$1.4 million grant from the National Science Foundation's Division of Environmental Biology to study the effect that droughts have on soil and the carbon cycling process—a critical determinant of carbon dioxide in our atmosphere and future climate change.

Drought threatens ecosystems and crop production worldwide and will become more frequent in the future. Soils store four times more carbon than plants and animals and emit more carbon than human causes. This ability to store carbon makes soils more fertile and combats climate change by keeping carbon dioxide out of the air. Drought may cause soils to store less carbon. This could become a vicious cycle that affects both climate and agriculture, said Evans, lead

investigator on the grant, which began Sept. 1.

Evans and her team will study how soils respond to a lack of rainfall and hope to create predictive models to assist in sustaining ecosystems, crop production and even combatting climate change.

Grant co-investigators are Steve Allison of UC Irvine and Christine Hawkes of North Carolina State University.



UNDERSTANDING PLANT IMMUNITY TO IMPROVE HUMAN HEALTH

MSU Foundation Professor Brad Day, in the Department of Plant, Soil and Microbial Sciences, is bridging the knowledge gap between the immune systems of plants and humans through better understanding the mechanisms by which plants fend off pathogens.

"We've discovered that those mechanisms share great similarity with some of the more significant diseases and pathologies that humans face."

Those discoveries have helped Day receive a National Institutes of Health (NIH) grant to study host immunity response.

MSU has established itself as a leader in plant health, and Day takes pride in advancing that work.

"When you see Air Force One, you think of the United States. When you see MSU, you think of a phenomenal, world-class research institute in agricultural and plant science research," Day said.

Read the full article on Professor Day's research at futuresmagazine.msu.edu

MSU SCIENTISTS CREATE INNOVATIVE HEART TO STUDY DISEASE

Researchers at MSU have created the world's first miniature human heart in the laboratory.

"These mini hearts constitute incredibly powerful models in which to study all kinds of cardiac disorders with a degree of precision unseen before," said Aitor Aguirre, the study's senior author and assistant professor of biomedical engineering at MSU's Institute for Quantitative Health Science and Engineering.

This study, "Generation of Heart Organoids Modeling Early Human Cardiac Development Under Defined Conditions," was funded by grants from the American Heart Association and the National Institutes of Health.

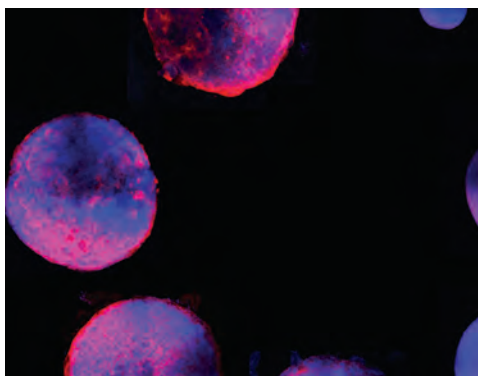
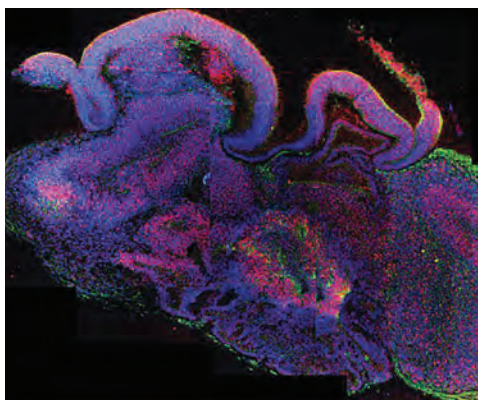
The human heart organoids, or hHOs for short, were created by way of a novel stem cell framework that mimics the embryonic and fetal developmental environments.

The innovation deploys a bioengineering process that uses induced pluripotent stem cells—adult cells from a patient to trigger embryonic-like heart development in a dish—generating a functional mini heart after a few weeks.

"This process allows the stem cells to develop, basically as they would in an embryo, into the various cell types and structures present in the heart," Aguirre said.

The organoids follow the natural cardiac embryonic development process, allowing researchers to study the natural growth of an actual fetal human heart in real time.

"In the lab, we are currently using heart organoids to model congenital heart disease—the most common birth defect in humans affecting nearly 1% of the newborn population," Aguirre said. "With our



heart organoids, we can study the origin of congenital heart disease and find ways to stop it."

Aguirre and team are excited about the wide-ranging applicability of these miniature hearts. They enable an unprecedented ability to study many cardiovascular-related diseases—from chemotherapy-induced cardiotoxicity to the effect of diabetes, during pregnancy, on the developing fetal heart.

Other researchers involved in this study were Aaron Wasserman, Mitchell Gabalski and Kristen Ball at MSU; and Chao Zhou, Jinyon Zhou and Guangming Ni at Washington University in St. Louis.

MORE ON
WEB

Link to the scientific extract:
go.msu.edu/cardiac

MSU REDUCES ENERGY FOOTPRINT



MSU has been recognized by the U.S. Department of Energy (DOE) for surpassing its Better Buildings Challenge goal, set nearly 10 years ago. Through campus-wide efforts led by Infrastructure Planning and Facilities (IPF), Spartans surpassed the goal two years ahead of schedule, achieving an energy savings of 21% across 20 million square feet of campus facilities – roughly equivalent to the energy demands of 4,400 typical Michigan homes.

\$1M grant launches interdisciplinary program on Mekong sustainability

A Michigan State University interdisciplinary team of faculty and staff is working to foster environmental justice in Southeast Asia. The Henry Luce Foundation's Initiative on Southeast Asia, or LuceSEA, is providing \$1 million in funding to help create the Mekong Culture WELL project.

The Lower Mekong River Basin in mainland Southeast Asia is home to 60 million people in five countries—Laos, Myanmar, Thailand, Cambodia and Vietnam—with globally significant and diverse cultures, environments and economies. Political volatility, climate change and development pressures such as hydropower damming are challenging WELL (water, ecology, land and livelihoods) security in the region.

"We are grateful for the partnership of the Luce Foundation, which will help us expand work that is critical to forging sustainable and just futures in Southeast Asia and beyond," said MSU President Samuel L. Stanley Jr., M.D. "MSU has long been a leader in seeking to meld science with humanities and the lived

experiences of local communities. As in Michigan and around the world, indigenous communities in Southeast Asia have been profoundly affected by ongoing transformations to their environments, yet their critical leadership and perspectives have been overlooked for too long."

The Mekong Culture WELL project will develop resources to build on and support MSU's interdisciplinary education and research.

"The Mekong River sustains livelihoods and food production across Southeast Asia and, indeed, across the global food system," said project lead Amanda Flaim, assistant professor in the James Madison College and the College of Social Science.

The project will integrate satellite and local mapping of the Mekong River to determine how climate change and hydropower damming are reshaping communities in downstream regions.

MORE ON
WEB

Read the full article in MSU Today:
go.msu.edu/mekong

Top 20
Green
College

The Princeton
Review ranks
MSU one of the
top twenty
Green Colleges
in the U.S.A.



INTERNATIONAL ART PRIZE WINNER

Adam Brown, associate professor in the MSU Department of Art, Art History and Design, won the Grand Prize in the Arts Division at the Japan Media Arts Festival for his work, “[ir]reverent: Miracles on Demand,” which will now be part of a major exhibition at the National Museum in Tokyo later this year. His project was one of 3,566 overall entries from 107 countries in this year’s competition.

THOUGHTS ON WINNING JAPANESE MEDIA ARTS FESTIVAL

“I’m thrilled to have the recognition,” Adam Brown said. “This project is the result of four years of planning, conceptualizing, as well as both laboratory and field research. It is gratifying to see that this huge investment of time and money is appreciated as a significant accomplishment.”

Science & Art

An internationally recognized conceptual artist, Brown’s work incorporates art and science hybrids including living and biological systems. For “[ir]reverent: Miracles on Demand,” he examines the impact of invisible microbial agents on human history and its belief systems.





Scholar Athletes Still Competing



Dominique Long is a mechanical engineering major with a 3.61 GPA entering his senior year at MSU.

Michigan State senior cornerback Dominique Long has been nominated for the William V. Campbell Trophy, which is awarded annually by the National Football Foundation to the nation's top scholar-athlete. The award is considered by many to be the "Academic Heisman."

A mechanical engineering major, Long has compiled a 3.61 grade-point average entering his senior year. The two-time Academic All-Big Ten selection and three-year letterwinner has played in 37 games during his career with 38 tackles, one pass break-up and one blocked punt.

Michigan State has had three Campbell Trophy finalists in the past nine years (Kirk Cousins, Max Bullough, Mike Sadler) and eight semifinalists (Cousins, Bullough, Sadler, Jack Allen, Josiah Price, Brian Allen, Khari Willis, Cole Chewins).

DEMOCRACY IS A TEAM SPORT

Michigan State Athletics has built a partnership with the Michigan Department of State and local election officials in Ingham County and the East Lansing City Clerk's office to encourage civic engagement and nonpartisan voter participation among students, student-athletes, alumni, fans and employees.

"One of our main goals for student-athletes is to help them make a positive impact on the community during their time at MSU," said MSU Athletic Director Bill Beekman.

Athletics will use their voice to:

- Encourage participation in the university's non-partisan early voting virtual town halls.
- Promote volunteerism and the need for election workers.
- Produce public service announcements aimed at voter education.

Football is Back!

Oct. 24

See the 2020
schedule at

go.msu.edu/football-20

Providing health care for survivors of sexual assault

A new innovative space opening at Michigan State this fall will offer 24-hour-a-day medical care to individuals who have experienced sexual assault. *By Chris Chapman, University Communications*

With increased safety measures in place due to the COVID-19 pandemic, MSU, is opening its Sexual Assault Healthcare Program on the second floor of the Student Services building. The new facilities demonstrate how a physical space can be designed to maintain a welcoming, supportive and healing environment.

“The staff members at the Center for Survivors have been talking with community partners about the possibility of creating a community-based Sexual Assault Nurse Examiner Program in the Lansing area for years,” said Tana Fedewa, director of the Center for Survivors at MSU. “When we became aware of an opportunity to partner with the Michigan Department of Health and Human Services and MSU, the dream became a possibility.”

It was the experts on the Relationship Violence and Sexual Misconduct Expert Advisory Workgroup who recommended the university create a trauma-informed, inclusive and accessible sexual assault health care program.

From this recommendation, the university sought the services of Jen Markowitz, a forensic nursing consultant and expert in sexual assault nurse examiner programs, and committed to renovating a space customized to the needs of sexual assault survivors.

To ensure the unique needs of the MSU community were considered in the development and implementation of the program and facility, the RVSM workgroup formed the SANE Advisory Board. Led by Rebecca Campbell, professor of psychology and adviser to the president on RVSM matters, the all-volunteer board has been involved in all facets of the program and facility design.

Architects and designers assigned to the renovation project received input from Markowitz, the RVSM workgroup, the SANE Advisory Board

and campus service providers to make the space feel safe, welcoming and patient-centered.

“The Sexual Assault Healthcare Program suite is designed to provide care for one patient at a time,” said Fedewa. “This program will first and foremost tend to the health and well-being of each person who seeks treatment.”

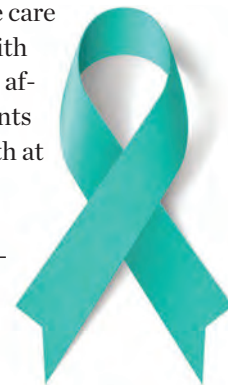
Built to be a confidential resource on the campus, the waiting room is equipped with comfortable seating and soft lighting. Adjacent to the examination room is a small sitting room where the forensic nurse can meet with a patient to collect medical history information prior to the exam. The examination room is a large suite with an attached bathroom equipped with an accessible shower, toiletries, self-care items and replacement clothing available to patients.

Sameerah Shareef, a longtime nurse midwife in the Lansing area, was hired as the medical director of the program and will lead a team of sexual assault nurse examiners who were hired to conduct specialized exams.

In addition, a care coordinator from the MSU Center for Survivors was hired to train and supervise volunteer medical advocates who will be available around the clock, offering critical support during an exam. The care coordinator will be tasked with patient follow-up in the days after an exam to connect patients to resources and services both at MSU and in the community.

This program is funded through a grant from the Victims of Crime Act.

“Built to be a confidential resource on the campus, the waiting room is equipped with comfortable seating and soft lighting.”



MORE ON
WEB

Learn more:
centerforsurvivors.msu.edu

Good things happen
when **we work together.**



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Finding Her Purpose

At her upstart, Chicago-based company, Noirefy, Shaniqua Davis brings together minority professionals and inclusive-minded companies. BY DANIEL P. SMITH

Upon earning her degree in Media and Information Technology from MSU in 2013, Shaniqua Davis entered the professional world bright-eyed and energetic, eager to contribute and driven to succeed.

Quickly, though, Davis found herself dissatisfied and unfulfilled, struggling to find purpose while being shoehorned into different corporate roles.

"I was bored and felt like a number," she said. "But more than anything, I felt I wasn't living up to my potential."

So, Davis decided to carve her own path. To do so, the Detroit native leaned heavily on her MSU experience, where she learned to balance schedules, access resources and capitalize on opportunities—undeniable assets for her plunge into entrepreneurial waters—as both a first-generation college student and a young mother with the help of the campus Student Parent Resource Center.

"As long as I've been an adult, I've been a parent, and the Student Parent Resource Center provided life-changing help for me," Davis said.

In 2016, Davis jumped into the entrepreneurial life with the debut of

Noirefy, a digital platform designed to drive diversity and inclusion in the workplace. A Match.com of sorts, Noirefy connects employers actively seeking to cultivate a more diverse workplace in today's multicultural world with professionals hungry to expand their career horizons at companies with a demonstrated interest in nurturing minority talent.

Four years after its launch, the new company now boasts a database of some 30,000 professionals, a swelling network of high-growth startups and Fortune 500 enterprises, and a burgeoning public profile that includes attention from major media outlets such as Forbes and Marie Claire.

"We're providing a trusted, curated and transparent experience," Davis said. "Candidates get direct access to companies actively looking for them, while companies get marketed as a diversity champion alongside exposure to minority talent they're not necessarily finding through their existing channels."

"My goal is to unlock opportunities for minority professionals and position them to be change-makers." Davis cites one recent Washington, D.C.-based candidate who accepted a leadership position with a tech startup in Chicago that came with a \$120,000 salary—double her previous

earnings—and an equity stake in the upstart company.

"I love her story because she struggled to find a position that recognized her value as an engineer and a firm that truly valued diversity," Davis said.

Moving into 2021, Davis aims to make Noirefy the premier diversity partner for companies, particularly high-growth startups where minority leaders can actively shape an organization's culture and values. While continuing to explore experiential events, Davis is also plotting a new project management tool that will focus on the ever-accelerating remote workforce.

Though Davis acknowledges diversity can be a "draining industry"—companies, she noted, have far too long "sat on the values they espouse"—and confesses the entrepreneurial journey has been a taxing adventure, she relishes living a life reflective of her potential and her purpose.

"My passion to cultivate a more diverse workplace has never waned," she said. "I'm going to continue pushing through, because there's much more to achieve."

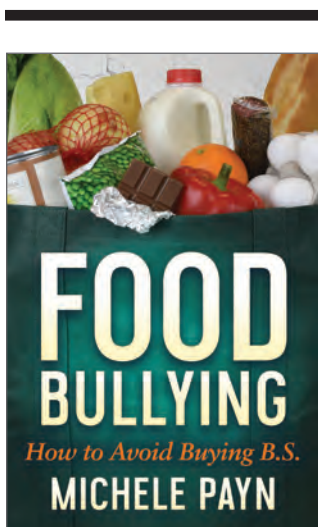
**MORE ON
WEB**

For video of Shaniqua being interviewed on campus:
go.msu.edu/davis

A woman with long braids and a red hat is sitting on a rooftop, working on a laptop. She is wearing a black t-shirt and blue jeans. The background shows a city skyline with tall buildings under a clear blue sky. The woman is looking towards the camera with a slight smile.

“ Now more than ever, companies understand they need to be active participants in diversifying their workforce in today’s multicultural world .

Shaniqua Davis '13
Communication Arts and Sciences



FOOD BULLYING

Michele contests that food has become a battleground where marketing labels and misinformation are used to bully and demonize people about their eating choices. She poses the question...What if you could stop stressing about what other people think and make eating decisions based on your own needs and preferences?

No More “Food Bullies”

Armed with science, compelling personal stories and a lifetime on the farm, Michele Payn challenges the way we think about the choices we make about food. BY KIRK HEINZE

Bullying takes many insidious forms, some overt and others far more covert—like food bullying. “Food has become a battleground where spurious marketing labels and misinformation are used to cajole, manipulate, even shame consumers about their eating choices,” Michele Payn wrote in her third book, “Food Bullying: How to Avoid Buying B.S.” The book, which received the gold medal in the health, medicine and nutrition category of the Independent Publisher Book Awards, or IPPYs, examines the complicated relationship humans develop with food.

“I believe deeply in choice, especially when it comes to food,” Payn said. “I wrote ‘Food Bullying’ to help people first become aware of the subtle, sophisticated, often devious ways they are manipulated and then to develop strategies for making guilt-free food choices based on their own ethical, environmental and health standards.”

Payn points out that marketing claims on food items, such as “ethically raised,” “all natural” or “farm raised,” are not measurable by Food and Drug Administration, Department of Agriculture or Environmental Protection Agency standards. She wants to be able to explain why a food is raised more ethically, which she is able to do on her small dairy farm in central Indiana.

A deep interest in knowing how her food got to her, guided her life and career choices. She grew up on a farm outside Jonesville, Michigan, and has been immersed in agriculture ever since. There was no doubt she would end up studying agriculture at MSU, she said. Her business, Cause Matters, connects people and the science of food and farming. She founded it in 2001 and educates people through webinars, virtual training and a podcast.

One of the most significant parts of her work is creating a dialogue



“Because of frequent visits to the beautiful MSU campus for 4-H and National FFA Organization events, there was never any doubt where I would go to college.”

among agricultural producers, consumers, doctors, dieticians and other key influential experts in the food industry. “Communication among knowledgeable professionals ensures that science-based information becomes the key component of food purchasing decisions—rather than marketing claims or testimonials from organizations with special agendas,” she said.

Payn’s career seems to be a natural extension of her upbringing, and studying agriculture at MSU became a part of that. “Because of frequent visits to the beautiful MSU campus for 4-H and Nation-

al FFA Organization events, there was never any doubt where I would go to college,” Payn said.

And now, Payn has made it her life’s work to create better relationships with food and nutrition. She hopes to help her audiences do the same, by educating them on food information.

She even launched the “Food Bullying” podcast in 2019. Reaching audiences through written word and spoken, Payn is teaching her followers how to make better food choices.

MORE ON WEB

Listen to Michele on MSU Today:
go.msu.edu/payn

“ We set up our operation to identify where fresh, healthy food is, and then we try to get it straight to the community with our own logistics capability.

Nothing Wasted

For Kirk Mayes, the CEO of Forgotten Harvest, it's simple: He wants to help. BY RUSS WHITE

Kirk Mayes never aspired to be a teacher. But after graduation it was his part-time work as a substitute that firmed up his life's path. Mayes was so impressed by the teachers and the impact they were having in a community south of Detroit, that he decided to make service front and center in his career.

“I was raised in a household and with a family where service and giving back was always a constant,” Mayes said, “so it was seeded in me early on.”

Soon, he and a few friends started the nonprofit Village Gardeners.

“The idea was to create a village-like environment in an urban setting to plant seeds of hope and change,” Mayes said.

The group eventually abandoned the project, but Mayes stuck with it and grew the organization. Success led him to his next role as executive director of Brightmoor Alliance, an organiza-

tion that offers job training, education and housing to one of Detroit's most-struggling communities.

It didn't take long for Detroit Mayor Mike Dugan to take notice and ask him to serve as the city's deputy for economic development.

Today, Mayes is the CEO of Forgotten Harvest. He is the driving force behind its mission to end hunger in metro Detroit.

Forgotten Harvest fights hunger and food insecurity by rescuing surplus food that would otherwise be thrown away. The nonprofit then works with other organizations to distribute it to families in need.

“Serving people, doing things for the right reason,” Mayes said of what drives him. “We are trying to anticipate the need so somebody doesn't necessarily have to ask.”

Mayes said food insecurity is a pervasive, yet underreported situation. Forgotten Harvest, according



Kirk Mayes, '99
Communication Arts and Sciences

to Mayes, is more of a food rescue organization than a food bank.

“No disrespect to the food banking world,” he said, “but we set up our operation to identify where fresh, healthy food is, and then we try to get it straight to the community with our own logistics capability.”

To do this, Forgotten Harvest finds food from groceries, food manufacturers, agricultural outlets and other sources that was going to be thrown away because it did not meet a manufacturer’s or retailer’s specs. The food is still healthy and fresh. “Then we turn it around and

give it to about 250 organizations in Wayne, Oakland and Macomb County for free,” Mayes said.

Mayes is living up to his goal of making an impact—and his community is better for it. Even as his influence and impact has grown, Mayes still looks at it in the same manner he did when he was a substitute teacher in the early 2000s—as a way to make a difference.

“Some people look at me and think that I’m a leader,” Mayes said, “but I’m just really trying to help.”

ABOVE: Kirk Mayes is CEO of Forgotten Harvest, one of Michigan’s top nonprofit organizations and one of the nation’s premier food rescue organizations. He is pictured at Forgotten Harvest headquarters in Detroit.

**MORE ON
WEB**

Hear Kirk Mayes on MSU Today:
go.msu.edu/mayes

Vet on the Move

She gained fame with her own TV show on Animal Planet, but now Dr. Dee Thornell has bigger plans for veterinary medicine. She wants to bring new veterinarians to the Last Frontier to revolutionize the practice. BY LIAM BOYLAN-PETT

In 1982, when she first moved to Alaska, Dee Thornell, DVM, worked out of her pickup truck. Driving around Fairbanks and the surrounding areas with a motto of “All Critters Welcome,” Thornell was a mobile veterinarian. Making house calls in town and off of dirt-rutted roads in the country, Thornell lived up to the motto, working on everything from reindeer to moose, and all sorts of pocket pets and birds. Aside from coping with the cold—temperatures would inch down to minus 40 degrees in the winter—business was good.

And, it kept getting better. Thornell did not last long in the truck before she moved her practice into a feed store, and finally opened one of Alaska’s most advanced veterinary clinics, with a team of 15 employees.

By 2015, Thornell piloted a plane en route to treat animals in the Arctic Circle. A film crew chronicled the trip for the first episode of Animal Planet’s “Dr. Dee: Alaska Vet.”

“I never thought I’d get into vet school,” Thornell said with a laugh. “But I didn’t think I’d have a TV show, either.” One of her clients worked in film and TV, however, and put her in touch with a TV scout. They pitched the show to Animal Planet, and had a two-season run. Thornell said it was a challenging project, but was thrilled to see the response to it, especially among female veterinarians.

She has only picked up the pace since the show ended. She bursts with enthusiasm when she speaks about being a veterinarian and the plans she has to give back and improve the field—or, as she said, to “revolutionize the practice.”

Thornell became a veterinarian because that is what her older brother, Dickie, wanted to be. He was 10 years older than she was and was killed in the line of duty in Vietnam. Thornell was in elementary school at the time, but her brother’s passion stuck with her.

She went to the MSU College of Veterinary Medicine and completed her undergraduate and veterinary school



degrees in five years, finishing in 1981. She spent one year working at the Waverly Animal Hospital in Lansing, then packed her belongings and moved to Alaska with her then boyfriend. She has been there ever since (the boyfriend left). She has stayed busy.

Her veterinary clinic is a 13,000-square-foot former equipment warehouse she bought, and it includes the Animal House Veterinary Hospital; Noah’s Ark, which is home to a groomer, a laundry and retail store; and a Montessori dog



Dee Thornell, '80, '81
Veterinary Medicine

training school called Muttessori.

Now, she is eager to bring recent veterinary school grads to Alaska, share her experience and help them start their career. Her plan, in which she would pay them a living wage while renting them the use of her clinic's equipment, would allow new veterinarians to run their own businesses.

Her mentorship and clinic would provide a safety net for someone early in their career. "You don't have to spend \$100,000 to start your own practice," she said.

And, she doesn't want them to.

Thornell is still working out the kinks in her plan, but would like to bring in a recent veterinary school grad in 2020 or 2021. The new veterinarian will be given overflow patients, and a chance to build up their own practice—of Thornell. If they are lucky, maybe one day they, too, will have their own TV show.

**MORE ON
WEB**

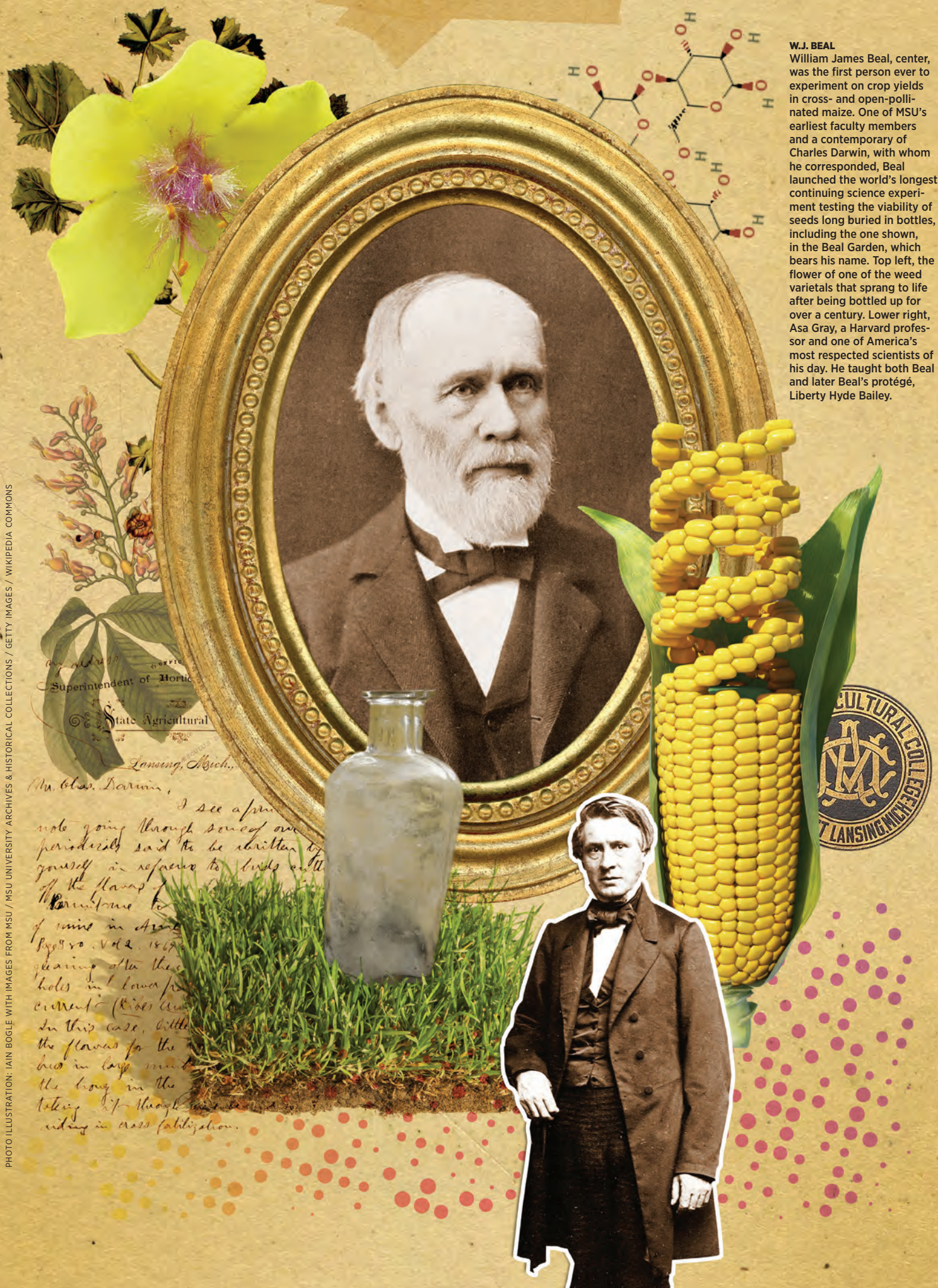
Learn more about Dr. Dee at:
go.msu.edu/thornell

“I never thought I'd get into vet school, but I didn't think I'd have a TV show, either.

WHAT BEAL BUILT

*Nearly a century after his death, the ambitious, curious
and forward-thinking spirit of pioneering MSU professor
William James Beal endures and inspires.*

BY DANIEL P. SMITH



W.J. BEAL

William James Beal, center, was the first person ever to experiment on crop yields in cross- and open-pollinated maize. One of MSU's earliest faculty members and a contemporary of Charles Darwin, with whom he corresponded, Beal launched the world's longest continuing science experiment testing the viability of seeds long buried in bottles, including the one shown, in the Beal Garden, which bears his name. Top left, the flower of one of the weed varieties that sprang to life after being bottled up for over a century. Lower right, Asa Gray, a Harvard professor and one of America's most respected scientists of his day. He taught both Beal and later Beal's protégé, Liberty Hyde Bailey.

THE FOUNDATION

On a silent spring morning in 2000, Frank Telewski marched across the MSU campus with a colleague at his side and a flashlight in his hand. Arriving at a nondescript patch of land, he planted his knees on the ground and, cautiously and methodically, began pushing a trowel into the East Lansing soil.

As Telewski, a professor of plant biology, extracted scoops of earth, a mounting pile at his side, his heart raced with anticipation and excitement over a moment some 120 years in the making. His colleague—the late Jan Zeevaart, a faculty member in the Department of Plant Biology—looked on with his own sense of wonder and awe, for they were adding their names to the world’s longest-running scientific experiment. Twenty years later, Telewski was hoping to repeat the effort with plant biologists David Lowry, Marjorie Weber and Lars Brudvig, but the coronavirus outbreak disrupted their plans. The only other time that happened was in 1918; ironically, it wasn’t the Spanish Flu pandemic but an early frost that delayed the scientists.

In 1879, William James Beal, one of MSU’s pioneering professors and most enterprising souls, dedicated this unassuming slice of the campus to his capstone experiment, one designed to outlive him and help future scientists address some of nature’s most tantalizing riddles.

Beal buried twenty 3-inch-by-7-inch narrow-necked bottles, each containing 50 seeds from 23 weed species, in this soil. Every five years, he pulled one of the uncorked bottles from the earth, extracting six during his lifetime, to examine the seeds and test their viability. Upon leaving MSU in 1910, he instructed his successors to do the same, though his project’s heirs later pushed that time frame to 10, then 20 years. The goal: to understand how long seeds remain viable in soil, a pressing question to Beal and late-19th-century farmers and one still relevant in the modern agricultural world.

As Telewski gently pulled a bottle from the soil, he brushed away the dirt and marveled at the scientific and symbolic nature of what he held. As the central caretaker of an experiment that began amid the post-Civil War presidency of Rutherford B. Hayes before being passed

down through generations of MSU scientists, Telewski carried the bottle to his campus lab. There, he and Zeevaart spread its contents over a sterile soil mix. Over the next two weeks, the group would follow the seeds’ germination before transplanting the mixture into pots for continued study.

“He had qualities of unremitting industry, sincerity of mind, simplicity of habit, together with a characteristic dry humor, which left an indelible impression upon everyone with whom, especially at the zenith of his long life, he came into contact,” The M.A.C. Record wrote of Beal upon his passing in 1924.

“I feel protective of his legacy,” said Telewski, who first learned of Beal’s experiment as a graduate student at Wake Forest University in the 1980s and has now spent the past 27 years of his career as an MSU faculty member tracking Beal’s sizable footprints. “Beal was a curious mind who wanted to understand the very nature of things—some questions only time can answer—and that’s a legacy I’m trying hard to carry on.”

Telewski isn’t alone in embracing Beal’s industrious spirit and honoring his unrelenting pursuit to understand the world through an ambitious array of multifaceted projects and diverse perspectives. Ninety-six years after his death, Beal’s legacy endures in ways as wide-ranging as his interests.

A life devoted to understanding

Born in Adrian, Michigan, in 1833 to pioneering Quaker parents from New York state, Beal was raised in a log cabin amid virgin forested lands, a seminal experience

**(CLOCKWISE)****HEIR APPARENT**

MSU botanist Frank Telewski, a caretaker of Beal's work, peers through plants grown despite being buried for decades in a glass bottle.

LIBERATED VESSEL

Bottle No. 15 of the 20 buried by Beal in 1879. Excavated in 2000, its resilient seeds produced plants. Beal turned the bottles upside down in the soil to prevent groundwater from seeping in.

SERIOUS BUSINESS

Suits and bow ties were the order of the day when Beal, seated far left, belonged to the staff of the College Speculum.

IN HIS ELEMENT

Beal, standing center, taught botany at the then-fledgling Michigan Agricultural College. He also taught English, history and civil engineering.

that cemented his connections to and fascination with nature. He earned a pair of degrees from the University of Michigan before continuing his education at the University of Chicago and Harvard University, where he studied under legendary American botanist Asa Gray.

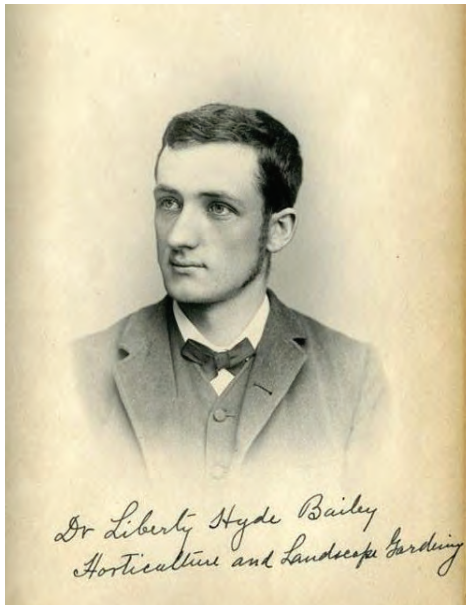
Beal returned to Michigan in 1871 as a lecturer on botany at Michigan Agricultural College (M.A.C.), the higher-ed precursor to MSU. For the next four decades, Beal was a scholarly force at the fledgling institution, pushing bold scientific research to understand the nature of the world, developing pedagogy to enhance student learning and driving interdisciplinary collaboration generations before the term entered the mainstream lexicon.

"Dr. Beal is one of the group of men whose work was responsible for the beginnings of M.A.C.," his obituary in The M.A.C. Record said.

Beal taught classes in botany, horticulture and forestry, educating and inspiring a long line of environmental enthusiasts and laying the foundation for MSU's rise as one of the world's top research institutions. A Renaissance man with a far-reaching mind, he also taught courses in English, history and civil engineering. The maxims he preached demonstrated his pragmatic, thorough approach to science and the world at large, including: "Details and facts before principles and conclusions," and "An eye trained to see is valuable in any kind of business."

In 1873, he founded MSU's W.J. Beal Botanical Garden, now the nation's oldest continuously operated university botanical garden. He fashioned the 5-acre space as a living lab and hands-on experiment station for his students and research. He also spearheaded the planting of trees across the campus, including the white pine lining Hagadorn Road, and led students in the design of the

THE FOUNDATION



STAR PUPIL

The young Liberty Hyde Bailey, above, blossomed as a botanist under his mentor, Professor William James Beal. Right, Bailey accompanied Beal and others headed up north in a horse-drawn buggy in June 1888. Shown among rows of jack pines, the mentor and his students studied and protected swaths of trees still growing in the northern Michigan area. It was in this year that Beal established a tree plantation near Grayling, which is still in existence today. With 40 species of trees, it may be the oldest documented tree stand in North America. The purpose of the planting was to determine and demonstrate how well various trees and shrubs could be successfully grown on dry, sandy soils.



arboretum between Mary Mayo and Campbell Halls.

"He was like a child eager to open each new package that nature presented, to see what it contained ... [and he] infected his students with this enthusiasm to know nature, and to know it firsthand," The M.A.C. Record wrote of Beal, who shunned alcohol, tobacco, coffee and tea in favor of habitual exercise.

Beal's touch extends far beyond the MSU campus and the students and colleagues with whom he interacted.

In 1887, when much of Michigan was still only slowly shedding its frontier ways, Beal and MSU mathematician Rolla Carpenter created "Collegeville," a residential neighborhood that would morph into the modern-day East Lansing.

Called the "Father of Michigan Forestry," Beal also was an early champion of forest conservation and reforestation after years of lumbering had cleared the northern half of

Michigan's Lower Peninsula of white and red pine. Beal, who would serve as director of the Michigan State Forestry Commission, encouraged farmers to begin planting trees—oak, pine, spruce and maple among them—arguing that trees would be economically useful to farmers on land unfit for other crops.

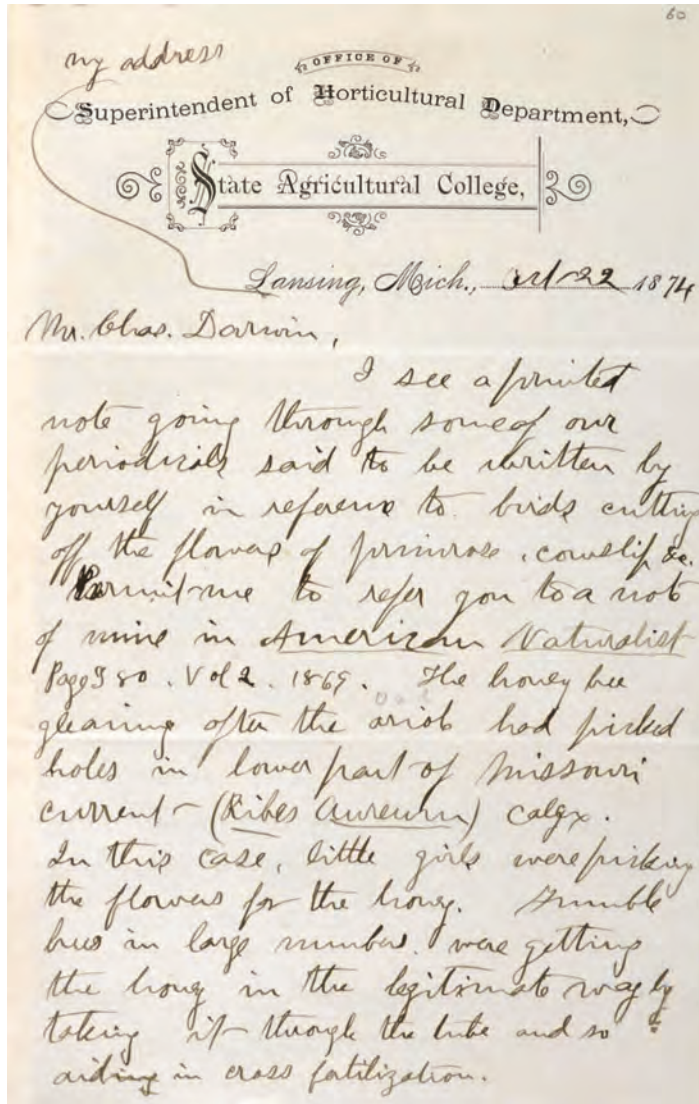
Beal and Liberty Hyde Bailey, a star pupil who would later shine in his own professional pursuits (see page 14), also took wagon trips to create agricultural experiment stations in northern Michigan outposts like Grayling, Harrison and Oscoda. On an 80-acre plot in Grayling, for instance, Beal oversaw the planting of 41 species of trees. The Beal Plantation survives in 2020, a historical site largely considered the oldest documented tree plantation in North America.

"Beal's mark on the land is still with us today," noted Telewski, who tends to some of that land himself as director of the Beal Botanical Garden and Campus Arboretum.



PLANT PIONEER
Beal poses alongside a
flowering plant within
the garden that is his
namesake.

THE FOUNDATION



PERPETUAL STUDENT

Born in Adrian to Quaker parents, Beal earned four academic degrees: two at the University of Michigan, another at Harvard and another at the University of Chicago. According to “The Story of Corn,” Beal arrived at Harvard to complete an undergraduate degree three short years after Charles Darwin published “On the Origin of Species.” Beal penned a letter to Darwin, shown above, whose influence is thought to have inspired Beal’s development of hybrid corn. Darwin replied and several years later, in a book about cross- and self-fertilization, Darwin cited Beal’s work.

So, too, remains some of Beal’s most complex research, including studies of turfgrass—Beal conducted the nation’s first turfgrass research and his two volumes of “Grasses of North America” remain seminal works in that field—and hybridized corn. After reading Charles Darwin’s work on hybrid vigor, Beal penned a letter to the acclaimed scientist asking about hybrid vigor’s potential applications to corn, a crop that hadn’t yet been manipulated. Darwin replied and encouraged Beal’s experimentation. That optimistic push fueled Beal’s most notable contribution to the greater world: hybridized corn. In conducting the first controlled crossing of corn lines in 1878, Beal set the stage for the diverse varieties and increased yields of corn present today.

Beal’s mind seemed in constant motion, ever investigative and questioning, endlessly craving knowledge. Over the course of his career, he published more than 1,200 papers and seven extensive texts.

“I don’t know when he slept,” Telewski said of Beal, who once said that he “studied and labored industriously because it gave [him] joy.”

The bottle experiment perfectly characterizes his ambition and curiosity, his grand attempt to advance science, contribute to understanding and unlock some of nature’s mysteries—even if that knowledge would come well after his time. There’s always something to be discovered. Beal understood and rejoiced in that twinkling reality.

“It takes a special kind of mind to see beyond his own mortality,” Telewski, 64, said. With five bottles remaining in Beal’s experiment, the last one will be unearthed in 2100.

While Beal left East Lansing in 1910 and died in 1924 at the age of 92, he instilled a probing, interdisciplinary ethos that endures at MSU. He set a pace and a commitment to studying the nature of things for the betterment of humanity that others embrace today with purpose and passion. He was a Spartan before we were Spartans, and his influence at MSU can be seen in concrete, ongoing ways.

MORE ON WEB

Frank Telewski discusses Beal’s seed viability experiment during a WKAR interview
go.msu.edu/telewski

SAVING SEEDS HAS BECOME ONE OF THE WORLD'S MOST IMPORTANT PROJECTS

If Beal went looking for a place to safeguard the genetic diversity of the crops that feed our world today, he might look far north—somewhere between Norway and the North Pole, in a place called Svalbard. It's known for its rugged, remote terrain of glaciers and frozen tundra perfect for polar bears, reindeer, Arctic foxes and a seed vault built into a mountain under permafrost and ice.

Built in 2008 by the Norwegian government as a safety net against accidental loss of diversity, the Svalbard Global Seed Vault recently received seeds from 33 countries, growing the total number of samples stored there to just over 1 million.

Suited for protecting the seeds harvested from plants grown around the globe, the frozen ground keeps the vault at a cool minus 3 degrees Celsius and a cooling system takes it down another 15 degrees. The low temperature plus the limited oxygen inside the mountain help to delay seed aging.

We can only imagine how thrilled Professor Beal would have been to learn that a seed vault buried deep in the earth would be more than an experiment. The Svalbard Global Seed Vault was named No. 6 on Time's Best Inventions of 2008 and is regarded as one of the 50 most influential projects of the last half century, offering the world peace of mind and insurance against climate change.



The Svalbard Global Seed Vault provides a safe backup of food crop seeds conserved by seed banks worldwide. This picture from inside the vault shows the shelves with the boxes holding the seed samples. The samples include not only currently active seeds but also old varieties that senior officials for the Crop Trust, which manages the vault, have described as 13,000 years of agricultural history.

The power of basic science

“This experiment has shown us so much about the evolutionary process in microbes and spurred so many new questions,” said Lenski, who launched the experiment in 1988 as a young faculty member at the University of California, Irvine, and brought it with him to Michigan State University in 1992.

While Telewski patiently waits for an opportunity to extract one of Beal’s Bottles, Richard Lenski, a professor in the Department of Microbiology and Molecular Genetics, goes to work in his lab inside MSU’s Biomedical and Physical Sciences Building. As he or a lab member had done every day for the past 32 years, Lenski took 1 percent of *E. coli* bacteria from 12 different flasks and placed each sample into fresh media. The 30-minute task represents a grinding effort to gain rich insights into the process of evolution.

Over the past three decades, more than 100 graduate students, postdocs and undergraduates at MSU and in labs around the world have engaged with Lenski’s long-term project, studying changes in the bacteria’s growth rates, cell sizes and shapes, physiology and genetic code. Lenski’s lab also does periodic quality controls, freezing samples to provide a record that Lenski’s team can later compare against current samples.

Like Beal, Lenski holds an intense

interest in nature’s inherent mysteries, an enthusiasm for nature that compels him to drill deeply into basic science exploration capable of propelling humanity and understanding. His guiding inquiry with the *E. coli* experiment: How repeatable is evolution?

And like Beal, Lenski isn’t afraid of time.

“The longer we can watch, the more opportunities there are for organisms to do interesting things,” Lenski said. “Evolution as a process is about time.”

But time can’t be rushed, and Lenski, an evolutionary biologist, once nearly ended his experiment. After a decade of seeing a slowing rate of change in his bacteria and convinced the project had run its course, he told his wife and colleagues that he was shutting it down. They all urged him to reconsider.

“Fortunately, I’m easy to convince,” Lenski joked.

In 2003, 15 years after the experiment’s birth, Lenski’s team noticed a change in one of the flasks. Though Lenski initially feared a contaminant, his team soon determined that the bacteria in one flask had begun consuming citrate, a previously untapped source of energy for the bacteria in their culture medium.

Since that breakthrough, Lenski said the experiment has continued to surprise. The bacteria are adapting in complex ways, generating their own ecosystems within the flasks and growing at faster rates. The *E. coli*, in fact, surge through seven generations each day, and the experiment has now surpassed 73,000 generations.

“It’s revealed new things about the evolutionary process that we hadn’t even imagined at the 10-year mark. I was naive for thinking a decade was a reasonable amount of time for an experiment like this,” said Lenski, whose project has been powered by technological innovations and discoveries, including genome sequencing, that didn’t exist when it began.

The basic science that Lenski’s lab conducts serves as a springboard for much of applied science, driving insights that inform fields from medicine and agriculture to computing and industrial processes. Amid the much-publicized anthrax scares following the Sept. 11 terrorist attacks, for instance, Lenski advised federal agencies on how to identify the origin of anthrax spores.

Summoning Beal’s spirit, Lenski said: “Part of the human experience is understanding nature and the



THE LONG HAUL

Professor Richard Lenski is an evolutionary biologist at MSU. He's known internationally for his ongoing three-decades-plus *E. coli* evolution experiment. It's been vital to understanding evolutionary processes, mutation rates, antibiotic resistance and the development of novel traits. He hopes his research will continue, as has Beal's, long after he's hung up his lab coat.

universe in which we live. It's fascinating to dig into the minutiae and to see how vast and rich the universe is."

While Beal's experiment outran him and will eventually stretch 176 years beyond his death, Lenski said he hopes his own experiment continues in perpetuity.

"It's picking up steam and shows no signs of slowing at all," he said. "There are more exciting surprises ahead."

Adopting a broader perspective

At the BEACON Center for the Study of Evolution in Action, a 10-year-old National Science Foundation-funded center housed on the MSU campus, biologists, computer scientists, engineers, philosophers and other academics gather to study evolution with the aim of applying that knowledge to real-world problems—with viruses, therapeutics, conservation and automobile safety among the topics the center has addressed.

Though BEACON leverages high-tech computers to scale its analyses, essentially evolving organisms in a digital world, its work is rooted in centuries-old questions about long-term processes in nature. BEACON is, in effect, the contemporary age's high-powered descendant of Beal's whirling mind.

"The questions we're asking are slightly different than what Beal was asking, but they're still long-term biology questions," BEACON Director Charles Ofria said. "We're keeping the spirit of his work intact, though technology is allowing us to push the bounds of research to areas Beal only could've imagined."

BEACON leans heavily on an interdisciplinary approach to fuel its cutting-edge study, mimicking the prying, multifaceted outlook that guided Beal's life. More than 100 MSU faculty are involved with BEACON at some level, including experts in genetics, game theory, ecology, applied evolution, modeling, robotics and high-performance computing.

"Fundamentally, BEACON is about trying to understand the world around us from varied perspectives, to get people across disciplines talking to broaden understanding," said Ofria, a professor of computer science and engineering, adding that he came to MSU because interdisciplinary approaches were supported, even expected, not merely encouraged.

Such is MSU's present, yes, but equally its DNA, exemplified by Beal—a campus founding father who buried bottles for future scientists to study while simultaneously teaching courses in English and promoting new approaches to instruction in an effort to inspire diverse thinking and idea exchange.

"I think Beal pushed MSU down this path of multidisciplinary research and paved the way for something like BEACON to thrive," Ofria said.

Added Lenski, who works closely with Ofria, philosopher Robert Pennock and graduate students in areas like mathematics, computer science, physics and engineering on a range of projects beyond his signature *E. coli* experiment: "Beal was thinking broadly and there's a lot of that at MSU, a lot of pot stirring. It's a fabulous place to do interdisciplinary research."

MSU's willingness to explore some of basic science's most enduring questions from a variety of perspectives blossomed in the university's earliest days with Beal as that culture's ardent champion. It sticks here because it took root here, nurtured by Beal's successors.

"A lot of scientists have a curious mind and a broad perspective, but Beal was truly different and unique," Telewski said. "He always seemed to have access to the bigger picture and used that to his advantage to address important scientific questions that could advance the world, connect people and drive new exploration."

And that's quite a legacy to leave.



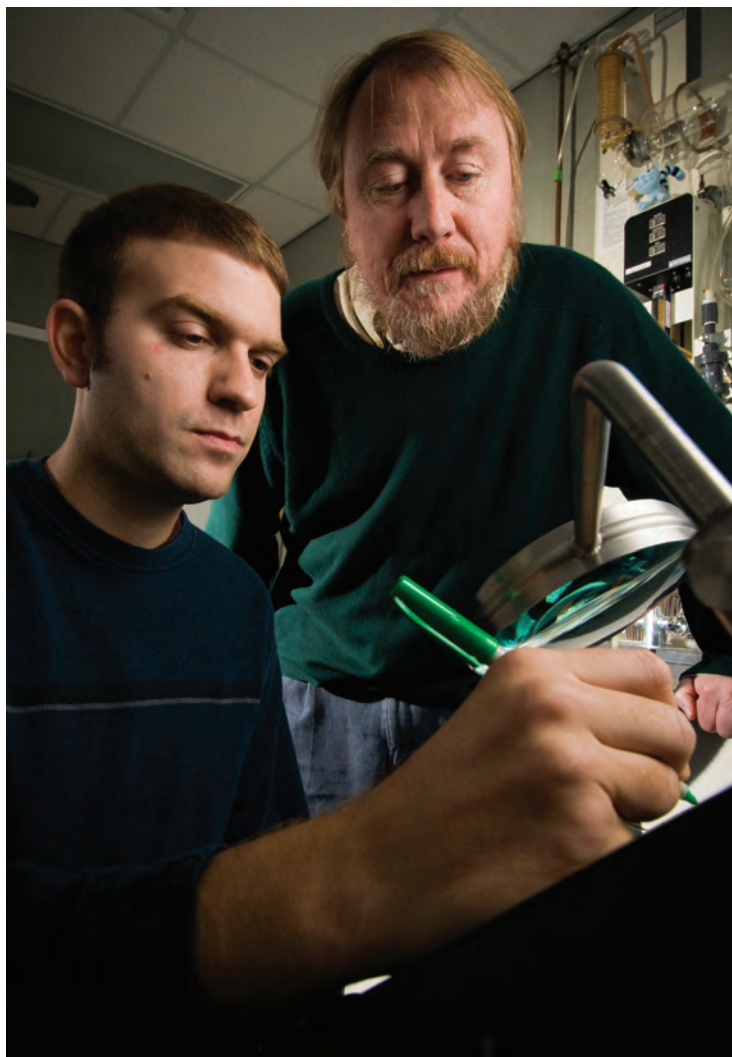
CHARLES OFRIA



ROBERT PENNOCK

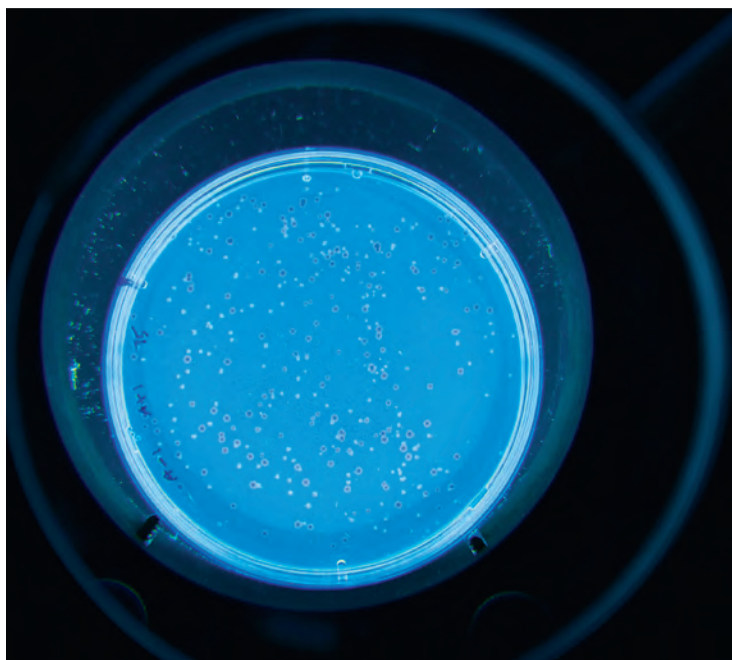
MORE ON
WEB

Dr. Lenski's lab: myxo.css.msu.edu
Dr. Lenski's blog: go.msu.edu/lenski



“A lot of scientists have a curious mind and a broad perspective, but Beal was truly different and unique. He always seemed to have access to the bigger picture and used that to his advantage to address important scientific questions that could advance the world, connect people and drive new exploration.

- FRANK TELEWSKI
Professor of Plant Biology, MSU



THE NEXT GENERATION

Richard Lenski and Jeffrey Barrick closely examine the *E. coli* bacteria (shown as colonies, left). Over 73,000 generations of the bacteria have been studied over the course of Dr. Lenski's Long-Term Evolution Experiment (LTEE), which began in 1988. The results have attracted attention, admiration and accolades - including a MacArthur genius grant. To put the experiment into some sort of perspective, since anatomically modern humans are understood to have arisen about 200,000 years ago, only some 10,000 generations have existed. Dr. Barrick has recently been named as the researcher to whom the experiment will be transferred sometime within the next five years. He has been a major contributor to LTEE research and was a postdoctoral researcher with Dr. Lenski at MSU before becoming an associate professor of Molecular Biosciences at the University of Texas at Austin.

W.J. BEAL'S *Brilliant Protégé*



WHILE
**WILLIAM
JAMES
BEAL EDUCATED HUN-
DREDS OF BOTANISTS,
HORTICULTURISTS AND
FORESTERS AT MSU, ONE
STANDS ABOVE: LIBERTY
HYDE BAILEY, THE FATHER
OF MODERN HORTICUL-
TURE AND A POWERFUL
FIGURE IN IMPROVING
RURAL AMERICAN LIFE.**

Born on a fruit farm in South Haven, Michigan, in 1858, Bailey appeased his youthful curiosity about the natural world by touring local forests, devouring Charles Darwin's "On the Origins of Species" and successfully courting Beal to speak in South Haven. Bailey's teenage encounter with Beal accelerated his fascination with the natural world and spurred his enrollment at Michigan Agricultural College (M.A.C.) in 1877, where he thrived under Beal's guidance.

his collection of some 140,000 plant specimens.

Ever mindful of his small-town roots, Bailey developed an extension program to teach natural studies in rural areas, spearheaded the creation of the 4-H movement and encouraged technological innovation on the family farm. At the request of U.S. President Theodore Roosevelt, he chaired the national Commission on Country Life, whose work launched a parcel post

"Liberty Hyde Bailey made a lasting impact on agriculture and farm communities."

After Bailey earned his horticulture degree from M.A.C. in 1882, Beal recommended him for an assistantship at Harvard University. Bailey worked as world-renowned botanist Asa Gray's herbarium assistant for two years before returning to M.A.C. in 1885 to launch the nation's first horticulture department. Following Beal's lead, Bailey favored hands-on instruction, distributing pumpkin seeds to students to stress small beginnings and sharing pumpkin vines to illustrate the massive fruits that small plants could bear.

After a three-year run at M.A.C., Bailey accepted a position as chair of practical and experimental horticulture at Cornell University. Over a 25-year run at Cornell, Bailey established himself as a prominent teacher, researcher and administrator, a scholarly life that included the publication of 65 books, more than 1,300 articles and 24 albums of plant photography. After retiring in 1913, he traveled the world—to China, New Zealand, Brazil and other locales—to cultivate

system, a nationwide federal extension service and the federally supported rural electrification program.

Like Beal, Bailey, too, embraced an interdisciplinary mindset. He published poetry collections and philosophical musings and commanded respect among country folk as well as the metropolitan elite, twice being urged to run for governor of New York. The National Academy of Sciences called Bailey "a man of incomparable vision and prodigious energy," while former MSU Department of Horticulture head H.B. Tukey said: "His interests were so great and his coverage so broad that he stood as a dozen men."

Though Bailey died in 1954 at age 96, his influence endures. MSU features Bailey Hall, home to the living-learning Residential Initiative for the Study of the Environment (RISE), as well as the Bailey Scholars program that promotes lifelong learning.

**MORE ON
WEB**

More about Bailey
go.msu.edu/bailey

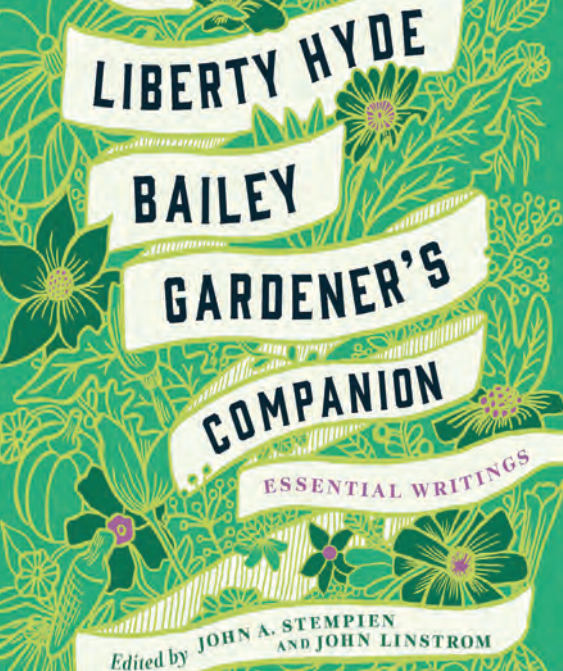


Fig. 107. Modern methods of fertilizing sweet potatoes. An acre of soil is divided into 100 equal parts, each 10 feet square. To each part 10 pounds of fertilizer are applied. (J. W. Allen, Editor, [illegible].)

sola per acre in two or three fractional dressings, the yield has been largely increased, and the selling price of the crop grown with the maximum amount of food more than doubled, making an increased value of crop of \$150 to \$250 per acre.

Naturally, the amount of nitrate of soda to be applied, and the time the applications should be made, are influenced by the character of the season; it will require heavier fertilizing in a wet season than in a dry season, because of the greater liability of loss in the first instance.

It may, therefore, be regarded as a safe rule in the growing of such market-garden crops as early tomatoes, early table beets, early turnips, early cabbages, muskmelons, cucumbers, celery, onions, peppers and early potatoes, that a formula as indicated, and made up, for example, as follows:

Nitrate of soda	100
Sulfate of ammonia	100
Dried blood	100
Acid phosphate	100
Muriate of potash	100

may be applied at the rate of 1,000 pounds per acre, at the time of setting the plants, or sowing the seed, to be followed by fractional applications of nitrate of soda at the rate of 100 to 200 pounds in each application, two or three times during the season. Of course, it is not necessary for maximum growth that the applications should be made in this way, but if the greatest economy in the use of the materials is to be made, then such practice is preferable.

When potatoes or tomatoes are the money crop in a rotation with wheat, hay and corn, the same basic formula may be used, and at the same rate,

though there will be no necessity for additional applications of nitrogen, and surplus of constituents left after the potato crop is removed will usually be sufficient to guarantee a good crop of hay or wheat. When the land is left for the hay crop three or four years, the burnings of a fertilizer rich in nitrate have been found most advantageous. Formulas for them may be made up to contain nitrogen 8 per cent, available phosphoric acid 1 per cent, potash 10 per cent, which would be secured from the following mixture:

Nitrate of soda	200
Ground bone	200
Acid phosphate	200
Muriate of potash	100

An application of 200 to 300 pounds per acre of this mixture will guarantee an abundance of available food at the time that the plant is in greatest need of it. If, in the use of this mixture, yard manure is available, it should be applied previous to planting seed, and would be sufficient to supply an abundance of the elements for this crop.

In the case of fruits, the remedy for quickly available food is not usually apparent, even in medium soils, until the trees are in full bearing. Hence, in order to guarantee a sufficient wood growth, a formula containing a relatively high content of the minerals, and of nitrogen in slowly available form, as in lime, may be used to advantage, preferably on light land. One made up of ground bone 100 pounds, acid phosphate 100 pounds, and nitrate of soda 100 pounds, will furnish the constituents in good form. On heavier land, a mixture of three parts of ground bone

450 pounds, muriate of potash 200 pounds, will furnish the constituents in good form. On heavier land, a mixture of three parts of ground bone



Fig. 108. Modern methods of fertilizing sweet potatoes. An acre of soil is divided into 100 equal parts, each 10 feet square. To each part 10 pounds of fertilizer are applied. (J. W. Allen, Editor, [illegible].)

Clockwise from top left:

Just one of 66 horticulture books penned by the prolific Bailey. He also contributed 700 academic research papers during his career.

In 1888, Beal and Bailey trekked to a landscape denuded of trees by lumberjacks to determine which trees would be best for reforestation of northern Michigan.

Later in life, Bailey founded and served as dean of the College of Agriculture at Cornell University, in Ithaca, New York.

Harvard University professor Asa Gray—who unified taxonomic knowledge of North American plants—mentored and inspired the work of both Bailey and Beal.

Bailey married Annette Smith, the daughter of a Michigan cattle breeder.

A page from the Cyclopaedia of American Agriculture, edited by Bailey.



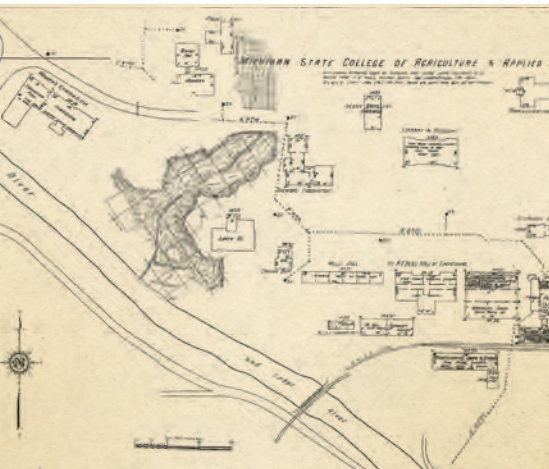


The GARDEN

The W.J. Beal Botanical Garden, established in 1873 by Professor William James Beal, is the oldest continuously operated university botanical garden of its kind in the United States.



It was originally called “The Wild Garden” because of the two purposes that Beal laid down for it at its inception: that it bring together all the plants growing in Michigan in one place and that they all be allowed to grow uninhibited. The garden is the perfect symbol for the university that houses it. It began humbly in 1873, but by 1882, Beal reported that there were close to 700 species living in the garden area. By his death in 1924, there were over 20,000 species! It was renamed the William J. Beal Botanical Garden a year later. Today, it is one of the highlights of campus and a continuing research focus. Dr. Beal once scribbled in his notes, “Such a garden would attract men of science and good taste from all parts of the country.” The garden is the oldest continuously maintained university botanical garden in the United States and is open to the public without charge year-round during daylight hours.



GET READY FOR **ELECTION** **MADNESS**

While you are preparing to vote this November, political scientists will be poring over survey data, coding candidate speeches, and analyzing election returns to understand how much American politics is changing. We asked a leading MSU political scientist, Matt Grossmann, to walk us through what he and others are learning and to help us all better navigate the issues this November.

**AN ESSAY BY MATT GROSSMANN, DIRECTOR OF MSU'S
INSTITUTE FOR PUBLIC POLICY AND SOCIAL RESEARCH**



MSU / GETTY IMAGES

Join Fellow Spartans
Compete against
professors and
students to predict
election outcomes at
electionmadness.org

Presidential campaign years are exciting opportunities for many political scientists—but I am considered obsessive even among those with a professional interest in elections. From local to national races, I will be seeking explanations for candidates' strategies and voters' choices and exploring implications for governance. But that does not mean I know who will win each race.



MATT GROSSMANN

Unexpected events do occur. In 2016, I surveyed Michigan political professionals about who they thought would win Michigan in the presidential election: more than nine in ten expected a Hillary Clinton victory. We also asked voters who would win; they were only a bit more confident in Donald Trump.

What Data Tell Us

Researchers are interested in more than prediction. The surveys also enabled a look at potential explanations for Trump's victory as well as why it was unexpected. With Daniel Thaler, '11, Ph.D. '15, I found that Trump voters thought the country was changing too fast, undermining traditional American values. These were not common sentiments among Republican officials we

surveyed, most of whom were surprisingly lukewarm on Trump.

We will be assessing these views again on surveys of the Michigan public and state officials this fall. We will be able to see whether sentiments change, and which factors predict voting decisions and expectations this time. We will also be assessing Michigan's U.S. Senate race and legislative elections, to see how much views of Trump drive voting in other races.

Academic Value

My perspective on the 2020 campaign is informed by decades of data, but a few things change during each campaign. I have found that Republican candidates tend to emphasize ideological principles—such as free markets—

and labels—such as conservative—more than Democrats. In contrast, Democrats tend to emphasize the specific social groups who would benefit from their policies. However, in the 2016 presidential campaign Trump mentioned more social groups than previous Republican candidates and Clinton mentioned more ideological labels. I will be assessing whether the parties are diverging more in their messages this year or coming to resemble each other.

My work will not stop with the election. As co-author of the "Campaigns & Elections" textbook, I will work to update student knowledge of campaigns as soon as the election is over. I am also working on long-term research on how the parties' rhetoric and coalitions have changed since the 1960s. And I track

everything from campaign advertising to debate answers to media coverage, to assess what issues are discussed and how voters have changed over time.

Stay Informed

If you want to follow along, I co-host a Michigan-focused podcast on WKAR called “State of the State” and a national research podcast for the Niskanen Center called “The Science of Politics.” I’ll also be contributing to FiveThirtyEight, an election forecasting news outlet. And I tweet academic studies and commentary every day on my channel @mattgrossmann.

But you do not have to be a passive observer—you can play along at home! I am helping MSU Professor Eric

Gonzalez Juenke with a March Madness-style prediction game, publicly available now at electionmadness.org. We have selected 21 federal and gubernatorial elections to motivate students to learn about, and weigh the importance of, different factors in American election outcomes. Picking the correct upsets will give players more points and bragging rights.

By playing, you will be competing against students and faculty. You can test your skills against fellow Spartans and challenge national forecasting experts. In the process, you will learn about the many factors experts consider in judging elections. Perhaps they will be surprised again.

“My perspective on the 2020 campaign is informed by decades of data, but a few things change during each campaign.”



ABOVE
President Donald Trump speaks at a rally on August 28, 2020 in Londonderry, New Hampshire. The rally took place one day after Trump formally accepted his party's nomination.

LEFT
Democratic presidential nominee Joe Biden delivers his acceptance speech on the fourth night of the Democratic National Convention from the Chase Center on August 20, 2020.

Get to Know: Matt Grossmann

Political Scholar and Analyst



MATT GROSSMANN, DIRECTOR OF MSU'S INSTITUTE
FOR PUBLIC POLICY AND SOCIAL RESEARCH

Matt Grossmann, a professor of Political Science, took charge of MSU's Institute for Public Policy and Social Research in 2016.

A prolific writer and scholar, his research has earned the support of the William and Flora Hewlett Foundation and the Russell Sage Foundation. He is published in the *Journal of Politics*, *Policy Studies Journal*, *Perspectives on Politics*, *American Politics Research* and 15 other outlets. He is also a regular contributor of op-eds in *The New York Times* and *The Washington Post*.

Grossmann has also advanced resources to support his field including the development of a policy-relevant research search engine and the Correlates of State Policy online database, a new online survey panel of political insiders, a new training program for legislative staff and series for faculty who engage policymakers.

His latest book, “Red State Blues: How the Conservative Revolution Stalled in the States,” is from Cambridge University Press.

Grossmann is an author or co-author of several other books including:

- “Asymmetric Politics: Ideological Republicans and Group Interest Democrats,” winner of the Leon Epstein Outstanding Book Award from the American Political Science Association.
- “Artists of the Possible: Governing Networks and American Policy Change Since 1945”
- “The Not-So-Special Interests: Interest Groups, Public Representation, and American Governance,” published by Stanford University Press in 2012.
- “Campaigns & Elections,” the leading elections textbook from W.W. Norton.

Grossmann is a Senior Fellow at the Niskanen Center in D.C., host of *The Science of Politics Podcast* and a regular contributor to FiveThirtyEight’s online political analysis.

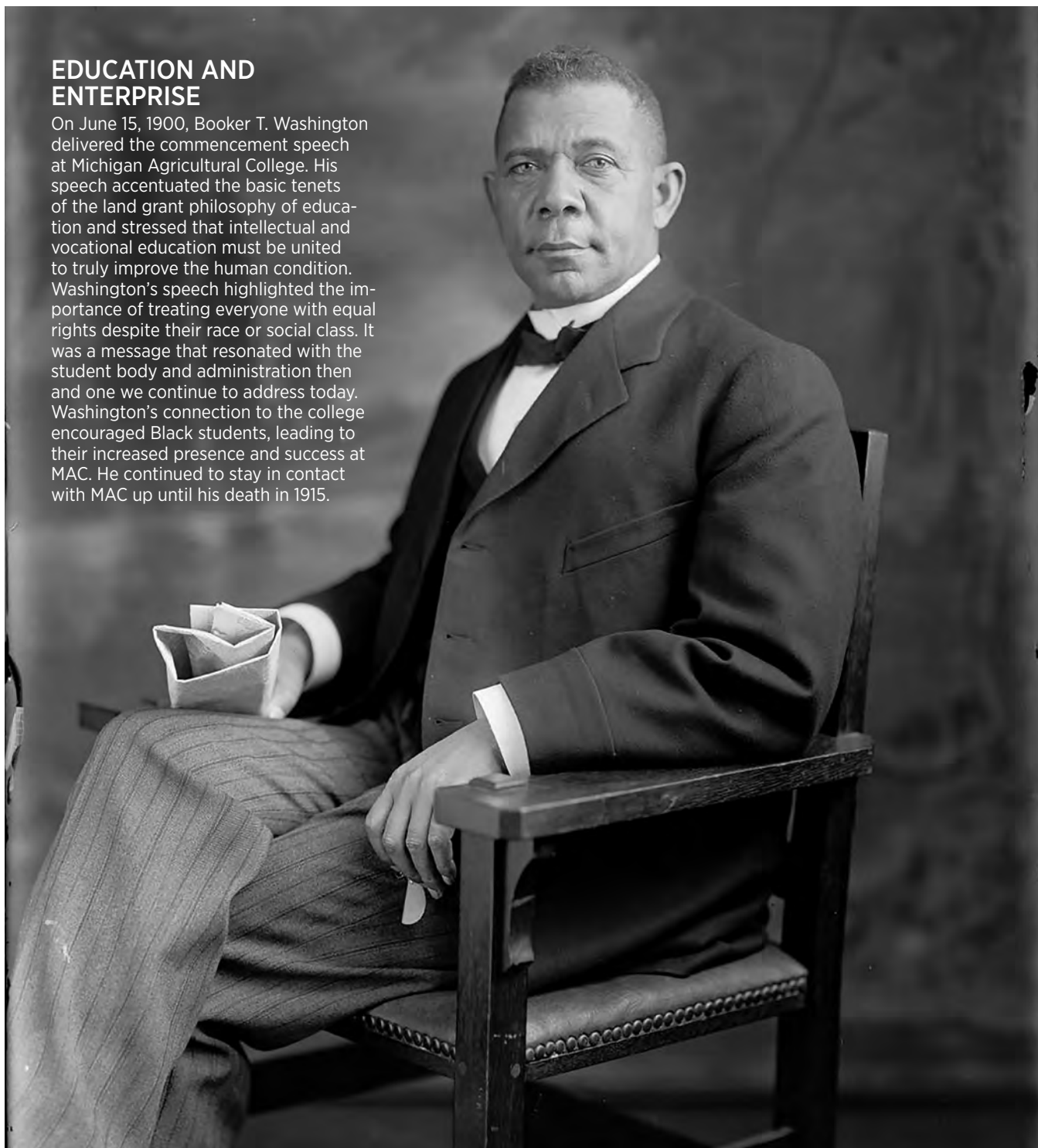
Follow Grossmann on Twitter
@mattgrossmann.

Green & White

Spartans Connect and Inspire

EDUCATION AND ENTERPRISE

On June 15, 1900, Booker T. Washington delivered the commencement speech at Michigan Agricultural College. His speech accentuated the basic tenets of the land grant philosophy of education and stressed that intellectual and vocational education must be united to truly improve the human condition. Washington's speech highlighted the importance of treating everyone with equal rights despite their race or social class. It was a message that resonated with the student body and administration then and one we continue to address today. Washington's connection to the college encouraged Black students, leading to their increased presence and success at MAC. He continued to stay in contact with MAC up until his death in 1915.



Bringing Campus to You

Discovering new ways to engage

Every day, my team and I love hearing from you and about the work you do to make the world a better place.

If this were a normal year, I would be telling you about things happening on campus like move-in day, and how alumni came back to East Lansing to help students start their collegiate journey in the dorms. Or about a bustling Homecoming, and all the festivities around it. But life is very different on campus this fall due to the coronavirus' drastic impact on our lives.

Things are different in the MSU Alumni Office, too, where we are postponing or transitioning our signature events to a virtual format for the rest of the calendar year.

We still have a very active fall on tap. Because we cannot bring you to campus for events or tailgates, our goal is to bring campus to you. We are excited about the possibilities. As we explore digital spaces, we are discovering that we can reach alumni in new and engaging ways.

In fact, at Alumni University—our regularly scheduled on-campus event filled with lectures and museum tours that brings together 150 to 200 alumni each year—we had over 900 Spartans participate. Because we were not constrained to campus, our community extended worldwide for sessions that ranged from a tour of the MSU Beef Center to a discussion on the MSU and Africa Partnership.

Without the regularly scheduled football season, Homecoming was different, too. Still, with Sparty as our Grand Marshall and 10 outstanding seniors serving on the Homecoming Court, we shared the traditions of Homecoming in virtual spaces and created some more MSU mem-

ories along the way. From East Lansing, we hosted virtual events that included a conversation with President Stanley and the program From Home with MSU Athletics—where many of our coaches connected with the community, who were missing out on some of our regular summer events due to the pandemic.

We are adapting some of our global events, too. Namely, we are moving MSU's Give Green Day to the spring—please mark your calendars for March 16, 2021. We will still be participating in the national day of giving on the Tuesday after Thanksgiving but moving Give Green Day to the spring will give us a great opportunity to focus on MSU's most vital necessities.

While things are different on campus, I remain thrilled to be a part of this alumni community—and share your enthusiasm that football is back in competition! Though health-related safety measures prevent us from currently hosting fans in the stands or permitting tailgating on-campus this season, please join us in wearing your green and white while cheering on the Spartans. Until we can see you in-person again, rest assured that the MSU Alumni Office is proud to support you as Spartans, wherever you may be and however we may connect.

Go Green!



Nick McLaren, '99

EXECUTIVE DIRECTOR, MSU ALUMNI OFFICE



“ Rest assured that the MSU Alumni Office is proud to support you as Spartans, wherever you may be and however we may connect.

Class Notes

News from Spartans Around the World



FALL ON THE MICHIGAN STATE UNIVERSITY CAMPUS

1960s

JOHN KIM, M.A. '60, Ph.D. '62 (Both in Engineering), recently published "In Pursuit of Science and Technology," a memoir about his professional pursuit of science and technology, as well as his personal thoughts on his faith, private finance, struggles with race issues as a minority, discrimination in the workplace and society, and his health issues.

DIANE PHELPS BUDDEN, '66 (Social Science), recently published "Dear Hubby of Mine: Home Front Wives in World War II" which presents life during the war through letters her parents shared during 1943-1945.

ALLAN HODGES, '67 (Social Science), has been elected president of the Beacon Hill Village, a virtual retirement community of 400 people enjoying life and aging in place in central Boston, MA.

RITCH EICH, M.A. '68 (Education), recently published his fifth book "Leading with Grit, Grace and Gratitude: Timeless Lessons for Life." Organized around three essential leadership values—grit, grace, and gratitude—the book discusses the importance of each value and highlights people, organizations and events that embody them.

1970s

ERIC STEMLE, '76, M.A. '81 (Both in Arts and Letters), recently published "I Was Not the Blossom," a chronicle of the final year of his 40-year teaching career. By combining blog posts with reflections that encompass perspectives on his practice and the profession in general, Stemle's book provides a guide for young teachers as they learn to adjust to life in what John Steinbeck called "the greatest of the arts." "I Was Not the

Blossom" reveals insights to help teachers develop a nurturing classroom environment in which they, as well as their students, can grow.

JENNIFER BYROM, '78 (Social Science), cofounder of The Travelers Club International Restaurant & Tuba Museum, recently published "Tastes and Tales of the Travelers Club International Restaurant & Tuba Museum" which is part cookbook of customers' favorite recipes over 20 years, part anecdotes of a quirky, iconic local restaurant and part memoir of her life prior to the Travelers Club.

1980s

DIANE SHARROW, '82 (Agriculture and Natural Resources), was recognized in January 2020 for 37.5 years of federal service with the United States Environmental Protection Agency's Region 5 Great Lakes office as a senior environmental inspector and enforcement officer. She also spent four years earlier in her career working for the Parks Division of the Michigan Department of Natural Resources.

SCOTT EILER, '83 (Engineering, Honors College), has recently retired from the technology industry. While in that industry, he worked on projects including Next Generation Weather Radar (NEXRAD).

CARLA WILSON-NEIL, '84 (Communication Arts and Sciences), retired in January 2020 as the chief operating officer for Spectrum Health Pennock Hospital in Hastings,

Michigan. Wilson-Neil joined Pennock in 1979, received her Master's in Management from Aquinas College, achieved her Fellow status with the American College of Healthcare Executives in 2012, and is a recipient of an ATHENA Women's Leadership award. She is also a Vietnam era Air Force veteran, and in 1978 received a USAF Reserves Airman of the Year award.

ROHIT KHATTAR, '85 (Business), is the producer of "Bombay Rose," the first Indian animated film ever selected to open Venice Critics' Week. The film will be released globally by Netflix in 2020. The film also won top prizes at the Chicago and Mumbai Film Festivals.

LISA FISHMAN, '88 (Arts and Letters), recently published "Mad World, Mad Kings, Mad Composition" which upends time itself in lyric, prose and visual forms spanning 16 years of notebooks, teaching notes, and improvisations.

1990s

ROB SOBIE, '90 (Social Science), was named president and CEO of ARC Healthcare Technologies in Orion, Michigan. In this new role Sobie will lead ARC's global strategic efforts in the expanded use and application of connected Radio Frequency Identification (RFID) technology to improve patient safety and supply chain efficiencies throughout health care. Previously, Sobie served as the worldwide vice president and general manager for BD and had served in executive leadership roles at other leading health care companies including Pyxis, Cardinal Health and Emerson Electric.

Class Notes cont'd

LAURIE SILVERMAN GENS, '91 (Business), was appointed director of life enrichment for Tamarisk NorthShore, a luxury independent living community in Deerfield, IL.

DEIRDRE CAREY BROWN, '93 (Social Science), recently made partner at Forshey Prostok L.L.P. in the firm's Houston office. Board certified in business bankruptcy by the Texas Board of Legal Specialization, Brown has 20 years of bankruptcy and restructuring experience. Her work includes representing both Chapter 11 debtors, official committees, creditors and equity, in a variety of industries, with particular focus in the construction and energy markets.

JEFF LAMBERT, '93 (Communication Arts and Sciences), CEO of Lambert & Co., is now the founder and CEO of TiiCKER, a newly developed intelligent startup platform connecting individual investors with the publicly traded brands they love. TiiCKER transforms how individual investors are rewarded for brand loyalty. The Detroit-based company provides stock perks and free trading to individual investors, while collaborating with publicly traded companies to unlock a key marketing demographic found in their retail shareholder base.

ERIK QUALMAN, '94 (Business), a bestselling author and keynote speaker has written a new book, "The Focus Project: The not so simple art of doing less, better." Combining street science and institutional research alongside his own personal focus project, Qualman delivers practical advice on doing the important things instead of a bunch of things. The book became a #1 New Release on Amazon.

2000s

NEIL D. BRINKER, '01 (Engineering), has been promoted to president of Advanced Energy Industries effective May 20. Brinker will also continue in his current role as COO.

MICHAEL HANAK, '03, M.D. '07 (Lyman Briggs College, Honors College and Human Medicine), was named president of the Illinois Academy of Family Physicians, representing the front lines of health care across the state. Hanak was formerly associate chief medical officer for Population Health and associate professor in the Department of Family Medicine at Rush University Medical Center in Chicago.

DR. KATHERINE M. ROBIADEK, '03 (James Madison College, Honors College), will join the faculty of Hood College in metro D.C. (Frederick, MD) as assistant professor of political science, leading the Martha E. Church Center for Civic Engagement.

BENJAMIN WILENSKY, '05 (James Madison College, Social Science), was named a shareholder at Sommers Schwartz, P.C. Ben represents railroad workers who seek compensation under the Federal Employers' Liability Act for on-the-job injuries, as well as those harmed by other forms of negligence and wrongdoing. He is one of only two lawyers in Michigan who belong to the Academy of Rail Labor Attorneys, the preeminent association of lawyers fighting for injured railroad employees.

PAUL DAVIS, '06 (Communication Arts and Sciences), former Michigan Mr. Basketball and Michigan State University Basketball All-American, has been named an equity partner of The Podium Group – Risk

Management, a Southfield-based financial management group.

BRENDA FRIEDMAN, '08 (Social Science), recently joined the firm Kogut & Wilson as an associate. Brenda represents individuals in all aspects of family law proceedings, including pre- and post-nuptial agreements, complex asset and property division, child support, maintenance and more. Prior to joining Kogut & Wilson, she worked as an attorney at two prominent family law firms in Chicago.

2010s

JESSICA BENTON, '10 (Business), was recently named senior marketing manager for Europe, Middle East and Africa at DataStax based in London, UK. Over the last 10 years, she's been focused and instrumental in growing international marketing programs and teams at companies such as Microsoft, Red Hat, Tableau and startup Trifacta.

LAUREN BEALORE, '11 (James Madison College), was recently appointed to the Climate Power 2020 Advisory Board as a state co-chair alongside national and state leaders. The advisory board is comprised of national and state leaders working to address the country's climate crisis, and includes Stacey Abrams, Abdul El-Sayed, former Secretary of State John Kerry and Dr. John Holdren.

DEBORAH VRIEND VAN DUINEN, Ph.D. '11 (Education), is currently the director of the Big Read in Holland, MI, and recently partnered with colleagues nationwide to facilitate an online book club for 4th and 5th graders; weekly they've had over 200 students join these conversations with well-known, award-winning authors. She also hosts two local

book clubs, one for mothers and daughters, and another for mothers and sons.

DR. ISAAC GARCIA-GUERRERO, '12 (Arts and Letters), will join the faculty of the Virginia Military Institute (Lexington, VA) as assistant professor of Spanish in the Department of Modern Languages and Cultures in fall 2020.

JESSICA DOYLE, '13 (Arts and Letters), recently joined Light Can Help You as a Design Leader after completing a Master of Professional Studies in Architectural Lighting Design at the New York School of Interior Design in NYC.

JACK RODZIK, '13 (Communication Arts and Sciences), recently joined MCCI Integrated Marketing as an account executive. Rodzik formerly served as Sigma Chi Fraternity's associate director of digital media.

AMBER MORSON, '15 (Social Science), started a book publishing service, AdvisedByAmber, after publishing her book "No Prayer, No Power and Journal of Faith," a self-reflection journal. She is a content writer for the U-Version Bible App where her plans have reached over 100,000 readers in the first year.

KAYLA COLLINS, M.A. '19 (Communication Arts and Sciences), recently joined MCCI Integrated Marketing as an account executive. Collins will assist various accounts including Invest Puerto Rico, Honigman and Forgotten Harvest.

Submit a Class Note

SEND E-MAIL TO ALEX GILLESPIE:
gille115@msu.edu

ON THE WEB:
myalumni.msu.edu/classnotes



"I AM NEVER ALONE
ON THIS JOURNEY."

GIFTS FROM SPARTANS LIKE **SUSAN OLNEY, '72**, ARE MAKING A DIFFERENCE FOR STUDENTS LIKE **HANNAH LALONDE, '21**.

HOME SWEET HOME

Each fall, Spartan alumni support their college with annual gifts after receiving a letter from a college representative like student Hannah LaLonde, '21, from Lyman Briggs College.

Hannah felt right at home when she received the Pamela Ann Merry Endowed Scholarship thanks to support from alumni like Susan Olney, '72.

"It reminded me that I am never alone on this journey," said Hannah.

As for Susan: "Lyman Briggs College gave me the support and foundation to be a woman in science. It exposed me to how science interacts with the rest of the world. I want to help others experience that support."

THREE WAYS TO MAKE A GIFT

PHONE: (800) 232-4MSU

ONLINE: go.msu.edu/fall-20

MAIL: University Advancement
Spartan Way
535 Chestnut Road, Room 300
East Lansing, MI 48824





Good News

Your charitable donations in 2020 may be tax deductible

The CARES Act of March 2020 not only aims to provide financial relief from the coronavirus pandemic but also could influence your charitable giving decisions in 2020.

Thanks to the CARES Act:

- Each taxpayer may deduct up to \$300 in gifts to charities, even without itemizing your deductions.
- Required Minimum Distributions (RMDs) from your individual retirement accounts are suspended for 2020. Previous tax law increased the age for RMDs to 72. You may still make direct distributions from your IRA to charities, starting at age 70 ½.
- You may apply up to 100% (rather than 60%) of your cash gifts to charities against your adjusted gross income.

Looking to make a gift before the end of 2020, visit givingto.msu.edu



In Memoriam

When Twilight Silence Falls

1930s

JOHN B. CLARK, '37, of Wetmore

JOHN C. ADAMS, '39, of Mount Morris

THOMAS W. CLARK, '39, of Tenafly, NJ

1940s

ALWINE L. NIELSEN, '40, of Muskegon

CHARLES E. DUTTON, '41, of Palo Alto, CA

FRANCES M. (COUTURE) MANN, '41, of Midland, Apr. 23, age 101

CAROLYN (COX) KILIAN, '42, of Lake Jackson, TX

FREDERICK G. COOK, '43, of Orinda, CA

THELMA D. (LOUDENBECK) HANSEN, '43, of East Lansing, Jun. 8, age 99

ALLEN (KENNEDY) NEIGHBORS, '43, of Tyron, NC, Mar. 4, age 97

ARLENE (LEAF) SALISBURY, '43, of Punta Gorda, FL, May 7, age 99

JACQUELYN S. (ANDERSON) SEARS, '43, of Youngstown, OH, Mar. 22, age 99

LOUISE A. (BOMBENEK) STERNBERG, '43, of Largo, FL, Jun. 6, age 98


MARY B. (BOJCZUK) VAUGHAN, '43, of Los Angeles, CA

EDWARD A. HAWLEY, '44, of Denver, CO, Mar. 11, age 96

PATRICIA K. (KELLY) CALLARD, '45, of Muncie, IN, May 20

MARY H. (CORNELL) DEWEY, '45, of Jackson, May 21, age 95

MARGERY J. (MERRIAM) EATON, '45, of West Palm Beach, FL, Apr. 27, age 96

 **ELIZABETH J. (CORNISH) KENNEY, '45**, of Silver Spring, MD, May 2, age 96

 **HARRY J. SCHMIDT, '45**, of Owatonna, MN, Apr. 5, age 95

OLGA K. (SIVANOV) BAICH, '46, of Clinton Township, Jun. 26, age 95

JEAN S. DIEFENBACH-HEPNER, '47, of Novi, Apr. 5, age 96

LEON C. DURFEY, '47, of Schenectady, NY

THEODORE ENGELMAN, '47, of DeWitt

NANCY D. (KADLEC) FINLAY, '47, of Louisville, KY, Apr. 15, age 93

DAVID GILTNER, '47, of Naples, FL

MARION (TEEPLER) GREENE, '47, of Traverse City, Jun. 13, age 94

VIRGINIA L. (RADECKY) SARGENT, '47, of Ann Arbor, May 12, age 94

HARVEY J. SCHWEITZER, JR., '47, of Champaign, IL, Mar. 28, age 100

LOIS V. (SCHNEIDER) SHUMAKER, '47, of Kingston, RI, Apr. 6, age 94

BARBARA J. (FORBES) STOVER, '47, of Danville, IL, Apr. 2, age 96

GEORGIANNA SWALM, '47, May 7, age 94

ELIZABETH M. (BEHRENS) TROMBETTA, '47, of Taylor, Jun. 3, age 94

THEODORE W. CAHOW, '48, of Bedford, NH, Apr. 28, age 97

RALPH L. ERICKSON, '48, of Homosassa, FL, Jun. 12, age 97

ROBERT G. GREEN, '48, of Morenci, Apr. 18, age 96

MARY J. (SMITH) HUXTABLE, '48, of Omaha, NE, Apr. 13, age 93

MARVIN L. LYONS, '48, of East Lansing, May 8, age 95

 **RAYMOND C. PERRY, JR., '48**, of Salt Lake City, UT, Jun. 11, age 96

BHERUMAL T. RAMRAKHIANI, '48

KATHRYN E. (LONG) WILSON, '48, of Austin, TX, Apr. 7, age 93

GEORGE H. BEAUDOIN, '49, May 20, age 95

ROBERT R. BUSHMAN, SR., '49, of Sykesville, MD, Apr. 26, age 93

LEE A. (HIGBEE) DAU, '49, of Atherton, CA, Apr. 7, age 92

ARNOLD L. DEMAINE, '49, of Madison, NJ, Apr. 3, age 92

COZETTE T. (TWEEDIE) GRABB, '49, of Ann Arbor, May 15, age 91

JOHN T. HAILEY, '49, of Tulsa, OK

ROBERT K. LARAWAY, '49, of Naubinway, Jun. 10, age 94

WILFORD J. MARSHALL, '49, of South Bend, IN

 **BERNARD A. PAULSON, '49**, of Houston, TX, May 5, age 91

PATRICIA J. (FINCH) PORTERFIELD, '49, of Saint Petersburg, FL, Apr. 5, age 93

WILLIAM D. RICHARDSON, '49, of Seattle, WA

RALPH W. SCHNEIDER, '49, of Fort Myers, FL, Mar. 24, age 93

1950s

CARL O. BASEL, '50, of Alpena, May 1, age 100

GARTH H. BEAVER, '50, of Charlottesville, VA, Apr. 15, age 91

GRANT BOGUE, '50, of Buda, TX, Apr. 2, age 91

EDWARD L. ELIOT, JR., '50, of Venice, FL

LAWRENCE H. HALE, '50, of Frankfort, May 17, age 92

EUGENE J. LACKI, '50, of Kenosha, WI, May 2, age 96

PETER D. LEOW, '50, of Milwaukee, WI, Jan. 20, age 95

JAMES W. MCLEOD, '50, of Wilmer, AL, Mar. 27, age 94

JOHN A. MCMAHON, JR., '50, of Saint Clair Shores, Apr. 30, age 92

CLAUDE K. NORTON, '50, of Grand Ledge, May 13, age 95

HENRY W. NORTON, '50, of Corpus Christi, TX, Apr. 1, age 93

JAMES P. REEDY, '50, of Framingham, MA

DAVID L. SANDER, '50, of Rochester Hills, Apr. 15, age 93

ALONZO J. SHERMAN, '50, of Oscoda, May 8, age 92

CALVIN C. SMITH, '50, of Canandaigua, NY, Apr. 2, age 96

TE MAY TSOU, '50, of East Lansing, Apr. 21, age 97

JOHN D. TUITT, '50, of Cumming, GA, Apr. 15, age 90

 **JOHN R. WALES, '50**, of East Lansing, Jun. 13, age 94

LEROY J. WHITE, '50, of Madison, WI

RALPH E. WOLFF, JR., '50, of Traverse City, Jun. 1, age 91

MARQUIS J. WORKMAN, '50, of Peabody, MA

SARAH L. (MILLER) ANDERSON, '51, of Niles, Apr. 18, age 90

TOM M. BRADFORD, '51, of Midland, Jun. 12, age 91

GERALD E. CHILDERS, '51, of Flushing, Apr. 23, age 94

MARY A. (DAVIS) COLLINS, '51, of East Lansing, Jun. 3, age 90

LOIS J. (MITCHELL) CROMIE, '51, of Birmingham, Apr. 2, age 90

ROBERT A. KRETCHMAN, '51, of Fowlerville, Apr. 14, age 92

IN MEMORIAM

ROBERT C. LONG, '51,
of Alexandria, VA

JOHN C. MACMEEKIN, '51, of Spring
Lake, Apr. 19, age 94

HOWARD A. MADDOX, '51, of
Durango, CO, May 10, age 93

PATRICIA J. (FEE) MILLER, '51, of West
Bloomfield, Apr. 17, age 90

CARL T. MOTTEK, '51, of Dallas, TX,
Mar. 29, age 91

JOANN F. (HARBAUGH) OTT, '51, of
Ada, Jun. 10, age 91

ARTHUR E. REED, '51, of Niles,
Apr. 30, age 92

JAMES E. ROBINETTE, '51, of Grand
Rapids, May 17, age 92

WILLIAM RUDMAN, '51, of Stamford,
CT, May 5, age 100

ROBERT L. THOMAS, '51, of Orlando,
FL

JULIETTA R. WHITE, '51, of Murrells
Inlet, SC, Mar. 29, age 94

DONN F. WIDMAYER, '51, of Avon
Park, FL, Apr. 24, age 96

PAUL F. WORTHINGTON, '51, of
Annandale, VA

NANCY W. (WHITMORE) BERNSON, '52,
of East Lansing, Jun. 2, age 89

WILLIAM M. CLEARY, '52, of East
Lansing, Apr. 1, age 89

JAMES T. CONSTAND, '52, of
Farmington Hills, Apr. 17, age 95

VICTOR V. DEROSE, '52, of Haslett,
Apr. 30, age 92

MACK C. GOODWIN, '52, of
Birmingham

MILDRED L. (WEIL) HUBACH, '52, of
Aurora, OH, May 10, age 90

ALLEN JONES, JR., '52, of Stevensville,
MD, May 25, age 90

GLORIA A. (GOOCH) LEHMAN, '52,
of Midland, Jun. 22, age 90

MARVIN F. LEWIS, '52, of Cedar
Rapids, IA, May 7, age 92

MARGARET E. (PAULL) MESSNER, '52,
of Mercer Island, WA, Apr. 18, age 89

JOYCE (ALLEN) SIMON, '52, of Aurora,
CO

WARREN A. STEINER, '52, of
Barneveld, NY, Apr. 25, age 91

WILLIAM C. WAGNER, '52, of Lake
Oswego, OR, Apr. 10, age 93

FREDERICK K. ZINN, '52, of Madison,
AL, Mar. 31, age 89

FERDINAND BACH III, '53, of San
Antonio, TX, May 16, age 88

MARIANNE BLANCHARD, '53, of
Cedar Springs, Jun. 11, age 89

GERALD L. CUNNINGHAM, '53, of
Spokane, WA

EARL D. DAVIS, '53, of Niles

DONNA J. (QUIST) DICKIE, '53, of
Post Falls, ID, Apr. 28, age 88

DAVID A. FULTZ, '53, of Traverse City,
Apr. 22, age 88

JAMES V. HUEBNER, '53, of Redding,
CA, May 18, age 89

JAMES E. HURST, '53, of Detroit

CHARLES JOBLONSKI, '53, of Bath,
Apr. 21, age 94

MARY LOU V. (BURTON) LUOMA, '53,
of Greenbush, May 24, age 89

LAWRENCE L. MCCARTHY, '53, of Bay
City, Jun. 25, age 91

DONALD F. SPYKE, JR., '53, of East
Lansing, May 16, age 89

**DOROTHY J. (TIBBITS) TIBBITS-
RONEY, '53,** of Grosse Pointe Shores,
Feb. 6, age 88

JOAN H. (SHRIVER) VANLUE, '53, of
Peoria, IL, Apr. 2, age 88

RICHARD L. BARNES, '54, of Merrill,
May 15, age 89

CAROL L. BROUGHTON, '54, of
Lansing, Apr. 22, age 87

RICHARD E. DONOVAN, '54, of
Downingtown, PA, May 9, age 93

 **CHESTER A. FRANCKE, '54,** of
Hale, Apr. 17, age 87

FREDERICK J. HODGSON, '54, of
Washington, MO, May 14, age 95

GORDON E. LANDSBURG, '54, of
Carsonville, Apr. 12, age 85

GERALD L. LARSEN, '54, of
Grandville, Mar. 29, age 89

BARTOLOMEO MARTELLO, '54, of
Athens, OH, Mar. 31, age 89

CHARLES C. RENWICK, '54, of
Davidson, NC, Jun. 19, age 87

BARBARA J. SINGLETON STAHLMAN, '54,
of Coatesville, PA, Jun. 1, age 87

JEREMIAH J. UPHAM, '54, of
Bloomfield Hills, Apr. 11, age 88

MARK R. BERRETT, '55, of South
Jordan, UT, Mar. 29, age 94

MARILYN A. (BROWN) BUCK, '55, of
Norton Shores, Jun. 18, age 87

ELEANOR (HART) COPLEY, '55, of
Greeley, CO, May 22

JACK W. DRITLEY, '55, of Overland
Park, KS, Jun. 13, age 91

WILLIAM S. GALARNO, '55, of New
York, NY, Feb. 15, age 86

WILLIAM J. HAHN, '55, of Ypsilanti,
Apr. 18, age 93

EINAR C. JENSEN, '55, of Lake Orion,
Mar. 22

JACK D. LAKE, '55, of Shelby,
Apr. 27, age 87

JULIE J. (MONINGER) MARTIN, '55,
of Flagstaff, AZ, Apr. 2, age 86

MERVYN K. MAXWELL, '55, of Estero,
FL, Apr. 17, age 86

EDMUND J. MONETTE, '55, of Reed
City, Jun. 16, age 95

WILLIAM M. POWERS, '55, of
Hiawassee, GA, May 28, age 86

JOHN PROTE, '55, of Central Lake,
Apr. 3, age 86

JOHN M. REISMAN, '55, of Wilmette,
IL, May 19, age 89

WILLIAM A. ROSENBERGER, '55, of
Stanwood, WA, Dec. 23, age 91

CARL P. STEIN, '55, of Orange Park, FL,
Apr. 8, age 91

SANDRA J. VANDENBERG, '55, of
Kalamazoo, May 28, age 86

SELWYN A. BROITMAN, '56, of Newton
Highlands, MA, Apr. 24, age 88

HARRY J. BUDDE, '56, of Holland,
Mar. 31, age 86

THOMAS W. CRAMPTON, '56, of
Minneapolis, MN, Mar. 22, age 90

JANET E. (JULIAN) FRERICKS, '56, of
Clarkston, May 9, age 85

RICHARD L. HERRICK, '56, of Holt,
May 15, age 89

EUGENE A. HILL, '56, of Franklin,
Apr. 5, age 93

ROBERT W. LADD, '56, of Lansing,
Jun. 2, age 87

GILBERT K. LAVEAN, '56, of
Winchester, VA, Feb. 16, age 86

PRISCILLA (SLABAUGH) SCHULTZ, '56,
of Palos Verdes Estates, CA,
Apr. 10, age 85

MARGARET A. (JOHNSON) SMOKER, '56,
of Lakewood, CO, Apr. 30, age 86

RONALD K. STEVENS, '56, of Hastings,
Apr. 24, age 85

DENNIS T. AVERY, '57, of Swoope, VA,
Jun. 20, age 83

RUEBEN J. BESSONEN, '57, of
Pensacola, FL, Jan. 1, age 86

ROBERT A. BJORKMAN, '57, of Rocky
Hill, CT, May 7, age 90

DAVID T. BOURGETTE, '57, of Clinton,
TN, Mar. 25, age 90

DAVID J. CONNOLLY, '57, of Treasure
Island, FL, Jun. 20, age 90

REXFORD A. DAWSON, JR., '57, of
Livonia, Apr. 14, age 84

RICHARD E. DUDAY, '57, of Prescott,
AZ, May 2, age 85

JAMES D. DUNN, '57, of Columbus,
IN, May 10, age 87

BARRY A. FULLERTON, '57, of
Peachtree Corners, GA, May 6

SALLYSUE (MORRISON) GALE, '57,
of Owosso, Apr. 11, age 84

WILLIAM J. HESSLER, '57, of Portage,
May 18, age 87

MARY A. (CASTROP) O'CONNOR, '57,
of Perrysburg, OH, Mar. 25,
age 84

ALAN E. PETERSON, '57, of Glen
Ellyn, IL, Apr. 20

DOUGLAS R. PORTER, '57, of Burke,
VA, Apr. 9, age 85

ROBERT H. SCHIFFMAN, '57, of Porter
Ranch, CA

LOUIS P. SHELDON, '57, of
Washington, D.C., May 29, age 85

JOSEPH W. UDRY, '57, of DeWitt,
May 29, age 87

VICTOR G. WHITE, '57, of Eaton
Rapids, Jun. 5, age 85

WILLIAM C. WILSON, '57, of Novi,
Apr. 30, age 90

BRUCE A. ANDREWS, '58, of Peoria, IL, Jun. 1, age 84

WILLIAM M. BERNARD, '58, of Boynton Beach, FL, Jun. 8, age 83

ROBERT L. BEYSTRUM, '58, of Kalamazoo, Dec. 11, age 89

EUGENE J. CAMFIELD, '58, of Fishers, IN, May 2, age 92

JAMES E. ELLS, '58, of Fort Collins, CO, Mar. 29, age 88

WILLIAM E. MCCONVILLE, '58, of Durham, NC

CAROL D. (KASHENIDER) MCGEE, '58, of Norwalk, CT, Apr. 20, age 83

ROY A. MECKLENBURG, '58, of Orlando, FL, Apr. 7, age 87

JEREMIAH P. O'CONNOR, '58, of Perrysburg, OH, Apr. 23, age 87

CHARLENE P. (PELTON) REINKE, '58, of Cockeysville, MD, Apr. 24, age 83

JOSEPH F. SHIELDS, '58, of East Jordan, Apr. 9, age 83

STEPHAN SPINRAD, '58, of Lansing, May 7, age 84

LEROY N. STOWE, '58, of Traverse City, May 4, age 89

ROBERT E. VANAUKEN, '58, of Saginaw, Apr. 12, age 84

GAIL A. (MACLAREN) VISHNIA, '58, of Rochester, Apr. 12, age 84

JOYCE A. (MANCHESTER) WILSON, '58, of Highlands Ranch, CO, Apr. 13, age 83

JAMES E. BALFOUR, '59, of Saint George, UT, Dec. 11, age 84

KENNETH E. BEACH, '59, of Grand Ledge, Apr. 29, age 89

GEORGE L. BOZZO, '59, of Veradale, WA, Mar. 25, age 88

ROBERT L. CARROLL, '59, Apr. 7, age 81

DON J. CARTER, JR., '59, of Laguna Niguel, CA

PATRICIA J. (JONES) CATARELLO, '59, of Naperville, IL, Apr. 8, age 81

EDWARD M. CODY, '59, of Northville, Apr. 23, age 83

KENNETH M. DICKINSON, '59, Apr. 26, age 90

GEORGE R. GAUDETTE, '59, of Ware, MA, Apr. 1, age 84

RICHARD C. HAMILTON, '59, of Solon, OH, Apr. 9, age 83

JOANNE A. (CLIFFORD) HARDER, '59, of Turner, Jun. 21, age 83

WILLIAM B. HELLEGAS, '59, of Naples, FL, May 25, age 84

TEDDY O. HODGES, '59, of Manhattan, KS, Apr. 24, age 97

JAMES L. JOHNSON, '59, of College Station, TX, May 6, age 82

MILTON J. LIPA, '59, of Binghamton, NY

JOHN R. PARISH, '59, of Lake Orion, Mar. 31, age 82

CHARLES H. RATHS, '59, of Nashville, TN, Apr. 19, age 85

TYRONE G. TUTT, '59, of Vauxhall, NJ, May 11, age 82

ANN C. (METCALF) VOTAW, '59, of Midland, May 10, age 82

1960s

JOHN CASTIGLIONE, '60, of Troy, May 26, age 81

JEAN M. (SHERIDAN) DANNEMILLER, '60, of Fort Myers, FL, Mar. 14, age 81

CARYL B. (BARNETT) FERGUSON, '60, of Ludington, Mar. 24, age 81

JUDITH L. (PETTIGREW) GILBERT, '60, of The Villages, FL, Apr. 9, age 81

CHARLES A. HUNT, '60, of Oscoda, Apr. 13, age 82

FRANK N. LANGS, '60, of Centerville, MA, Apr. 15, age 83

F T. MCINTYRE, '60, of Peoria, IL, May 22, age 81

RICHARD J. MUGAVERO, '60, of Venice, FL, Oct. 23, age 80

SUSAN J. (FLETCHER) OVERHOLT, '60, of Levering, May 5, age 82

ROBERT A. PIERSON, '60, of Traverse City, Jun. 4, age 89

ROBERT C. SANDERS, '60, of Eugene, OR, May 20, age 81

EDWARD C. SCHOENFELD, '60, of Marshall, Mar. 28, age 83

JACK D. SOMERVILLE, '60, of Noblesville, IN, Apr. 25, age 86

RICHARD A. STEFAN, '60, of Dearborn, Jun. 10, age 86

JOHN W. WALLEN, '60, of Marco Island, FL, Oct. 18, age 82

GEORGE R. WEAVER, '60, of Tampa, FL, Dec. 25, age 89

RALPH O. WILBUR, '60, of Hastings, Apr. 1, age 81

CORTLAND E. YOUNG, JR., '60, of Charleston, SC, May 30, age 84

RUSSELL A. BUYERS, '61, of Farmington

JOHN P. CASBERGUE, '61, of Lansing, May 17, age 88

FRANK E. COOPER, '61, of Anaheim, CA

ALBERT R. ESCOLA, '61, of Fresno, CA, May 4, age 93

ROBERT W. FLETCHER, '61, of Burley, ID

MARILYN (WASCO) GONSER, '61, of Grand Rapids, Apr. 1, age 80

BEVERLY M. HECK, '61, of Monroe, Apr. 22, age 80

FRED H. JACKSON, '61, of Spring Arbor, May 30, age 96

JIMMIE H. JAMES, '61, of Riviera Beach, FL

RAYMOND W. KOHR, JR., '61, of Bay Port, Jun. 5, age 82

NORMAN D. KREAGER, '61, of Lansing, Mar. 29, age 84

MARIE E. (DUBKE) RACZ, '61, of Severna Park, MD, May 22, age 90

PAUL G. ROCHESTER, '61, of Jacksonville, FL, Jun. 7, age 81

MAUREEN C. (REILLY) SHANNON, '61, of Bloomfield Hills, Jun. 13, age 80

ROBERT L. SHONE, '61, of Portage, IN, Jun. 14, age 82

LEIF G. TERDAL, '61, of Portland, OR, Mar. 8, age 82

MARGARET L. WHITMAN, '61, of Lansing, May 24, age 89

RONALD G. ABRAHAM, '62, of Hamilton, IN, Mar. 24, age 80

STANLEY L. CHALLISS, '62, of Hoover, AL, May 13, age 80

VIVIAN J. (FODREA) COOPER, '62, of Sarasota, FL, Jun. 4, age 79

JOHN J. PAPPAS, '62, of Rochester, MN, Apr. 19, age 86

ROSHANDEEN J. RAMNARINE, '62, of Yucaipa, CA, Apr. 20, age 82

RICHARD D. ROWRAY, '62, of Yorktown, IN, Apr. 14, age 88

JUDITH M. (STEFANI) SABLES, '62, of Saint Clair Shores, Mar. 22, age 82

BARBARA J. (SMITH) WILLIAMS, '62, of Pensacola, FL, Apr. 30, age 79

JOSEPH W. BENEDICT, '63, Apr. 25, age 90

PAUL A. BLAKESLEE, '63, of Lansing, Jun. 13, age 81

ROBERT BOLT, '63, of Ruskin, FL, Mar. 23, age 89

JAMES J. DULEMBA, '63, of Eau Claire, WI, May 27, age 79

PERCY HAMMING, '63, of Woodstock, GA, May 11, age 81

JOHN A. KUENZLI, '63, of Manistee, Feb. 25, age 78

DAVID M. LEWIS, '63, of Kalamazoo, May 17, age 91

THOMAS F. O'CONNOR, '63, of Springfield, MA, Apr. 8, age 97

ROBERT L. RASMUSSEN, '63, of Naches, WA, Jun. 21, age 79

GARY L. SANDERSON, '63, of Flushing, May 28, age 83

ANTHONY R. SGROI, '63, of Hurley, NY, Apr. 26, age 86

WILLIAM W. SOUTHERN, '63, of Two Rivers, WI, Jun. 12, age 81

ROLAND J. TETREAULT, '63, of Springfield, MA, Apr. 19, age 88

REAL J. TURCOTTE, '63, of Commerce Township, Jun. 15, age 79

GERALD A. YOUNG, '63, of Farmington Hills, Apr. 3, age 89

JANET L. (CUSHING) BENNETT, '64, of Novi, Apr. 28, age 77

MARY J. (CATERINO) BORK, '64, of Katy, TX, May 14, age 77

IN MEMORIAM

NANCY A. CAMPBELL, '64, of Holt,
Mar. 15, age 81

DENNIS P. CHAPPELL, '64, of Port
Tobacco, MD, Apr. 25, age 77

ERNESTINE M. CROMARTIE, '64, of
Columbia, SC, May 15, age 76

JUDY L. CURRIE, '64, of Plant City, FL,
Mar. 15, age 73

MARCIA CURTIS, '64, of Beavercreek,
OH

JEFFREY L. EVANS, '64, of North
Canton, OH, Apr. 20, age 79

OLIVER D. GRIN, JR., '64, of Harbor
Springs, Apr. 2, age 77

OTTO R. KUNZE, '64, of College
Station, TX, Jun. 12, age 95

CHARLES L. MILETT, '64, of Barrington,
IL

FLORENCE M. (BEDNARSKI) MISHINA, '64, of Davison, May 9, age 90

MARYELLEN (SCOFIELD) PARKER, '64,
of Naples, FL, Apr. 27, age 83

JUDITH A. (HARVEY) SELLGREN, '64,
of Rochester Hills, Apr. 25, age 78

RICHARD N. STEVENS, JR., '64, of
Springfield, VT, May 15, age 82

RAYMOND C. WIFLER, '64, of Fond Du
Lac, WI, May 2, age 83

GERALD L. WRIGHT, '64, of Mesa, AZ,
Jun. 5, age 78

ROBERT A. CAIRNS, '65, of Alden, Mar.
25, age 81

MERVIN B. DAYE, '65, of San Rafael,
CA, Apr. 3, age 77

D. GENE GOINS, '65, of Canton,
Jun. 19, age 77

MARGARET HAAK, '65, of Orlando, FL,
Jun. 1, age 91

DON R. HANNIGAN, '65, of Hart, Apr.
26, age 79

JACK W. HICKEY, '65, of Saint Johns,
FL, Apr. 25

D. SCOTT JACKSON, '65, of Zionsville,
IN, May 18, age 76

MARY LOU (PATRICK) JOHNSON, '65,
of Plymouth

ROBERT KERTZER, '65, of Durham,
NH, Apr. 11, age 81

KAREN M. (DAYNE) KOSS, '65, of
Brighton, May 1, age 76

MAYNARD G. LEWIS, '65, of Boise,
ID

MICHAEL G. MAKSUD, '65, of
Corvallis, OR, May 7, age 88

JACOB A. MITCHELL, '65, of Flint,
May 11, age 86

**CYNTHIA J. (CUTHBERTSON)
PRINGLE, '65**, of San Francisco, CA,
May 15, age 77

CHARLES C. RAGAINS, '65, of
Bloomfield Hills, Mar. 24, age 76

JANICE M. RYSDYK, '65, of Grand
Rapids, Jun. 4, age 82

RICHARD W. STAHLMAN, '65, of
Tionesta, PA, Jun. 9, age 76

PATRICIA A. WHITESIDE, '65, of
Tallahassee, FL, Oct. 11, age 83

DOROTHY L. (BOSSERDET) WING, '65,
of Owosso, May 9, age 94

THOMAS J. AYLWARD, '66, May 6,
age 76

MELANIE A. BLACK, '66, of Post
Falls, ID, Jun. 10, age 75

**ELEANOR K. (BIRKLAND)
BURROWS, '66**, of Cedar Rapids, IA,
Jun. 6, age 76

FRANKLIN D. CORDELL, '66, of
Greeley, CO, Apr. 29, age 82

TRUDY L. (PUTZ) DANLEY, '66, of
Farmington, Mar. 31, age 76

ROBERT A. EBERT, JR., '66, of
Orange, CA, Mar. 20, age 75

KEITH E. EVANS, '66, of Laingsburg,
Jun. 14, age 76

LOUIS E. GARDNER, '66, of
Urbandale, IA, May 24, age 84

EDWARD C. HAGER, '66, of
Kalamazoo, May 10, age 87

HARVEY T. HARRIS, JR., '66, of
Northville, Oct. 15, age 79

KAREN S. (GARDNER) IRISH, '66, of
Grand Ledge, May 18, age 76

WILLIAM J. KELCH, '66, of Knoxville,
TN, May 13, age 74

KEN L. MURRAY, '66, of Jacksonville
Beach, FL, Apr. 2, age 77

EDWARD J. NICHOLS, '66, of Salem,
SC, May 25, age 79

WILLIAM C. PURDY, '66, of Lutz, FL,
Mar. 15, age 76

WILFRED D. SMITH, '66, of Alma,
Jun. 4, age 76

 **PHILIP A. SNYDER, '66**, of San
Francisco, CA, Apr. 15, age 77

JOHN M. STEVENS, '66, of Galesburg,
Apr. 2, age 76

JUDITH H. SUTHERLAND, '66, of
Oakland, CA, Mar. 15, age 77

ROBERT T. SUTTON, '66, of Tampa,
FL, Jun. 7, age 79

ROGER K. SWANSON, '66, of Daniel
Island, SC, Apr. 17, age 89

RICHARD C. TESTA, '66, of
Saunderstown, RI, Jun. 10, age 78

RONALD W. VERMEULEN, '66, of
Kalamazoo, May 16, age 81

JAMES L. WASHBURN, '66, of
Bradenton, FL, Mar. 31, age 76

DOUGLAS R. WILLIS, '66, of Tiffin,
OH, Apr. 11, age 75

GREGORY L. BOGGS, '67, of Flint,
Jun. 5, age 75

THOMAS P. BROGREN, '67, of
Fruitport, Apr. 26, age 75

KENNETH W. BURT II, '67, of Escalon,
CA, May 2, age 75

CAROL C. CHRISTY, '67, of Weeki
Wachee, FL, Apr. 28, age 76

CHERYL A. (FAISON) HICKS, '67, of
Lansing, Mar. 5, age 75

MARY K. (HEUSEL) HORLICK, '67, of
Venice, FL, Jun. 9, age 74

BOB J. LANDOWSKI, '67, of Bay City,
Apr. 9, age 74

JOHN C. LARRY, '67, of Macomb,
Jun. 15, age 75

DOROTHY P. LASKEY ROSE, '67, of
Clayton, NM, May 22, age 75

JON H. LITTLE, '67, of State College,
PA, Mar. 31, age 75

DEBRA A. MILLENSON, '67, of North
Bethesda, MD, May 12, age 72

RAMON A. MOUNT, '67, of
Chesterfield, MO, Mar. 7, age 80

STEPHEN S. OCKASKIS, '67, of Lowell,
Apr. 12, age 77

FREDERICK W. PHILLIPS II, '67, of
Leola, PA, Jun. 21, age 75

ALLEN L. POORMAN, '67, of Roanoke,
IN, May 2, age 81

THOMAS F. REIF, '67, of
New Hartford, CT

MILAN K. ROYCHOUDHARI, '67, of
Fayetteville, AR, May 2, age 78

EDWARD L. SCHREMS, '67, of
Norman, OK, Mar. 21, age 75

MARTHA S. (SMITH) SIMONDS, '67, of
East Lansing, Jun. 25, age 76

DONALD L. SODREL, '67, of New
Albany, IN, Apr. 26, age 87

BARBARA L. (LAKE) STEELE, '67, of
Bay City

JAMES J. ZOLCZER, '67, of Orchard
Park, NY, Apr. 3, age 76

JONATHAN W. ZOPHY, '67, of
Seabrook, TX, Jun. 4, age 74

CHARLES H. BAER, '68, of Lawton,
OK, May 21, age 73

PAULA (SPRINGER) BOASE, '68, of
Taylor, Apr. 5, age 74

STEPHEN L. BOGEN, '68, of Spokane,
WA, May 13, age 73

ROBERT J. BOROWSKI, '68, of Dyer,
IN, Jun. 1, age 73

GAIL L. (KOTA) CHESNEY, '68, of
Marysville, Jun. 15, age 74

DEE L. CRAMER, '68, of Webberville,
May 28, age 73

THOMAS J. DEWITT, '68, of The
Villages, FL, Mar. 18, age 74

FRANK E. EPPLE, '68, of Mount
Pleasant, May 15, age 78

JAMES R. FRYISINGER, '68, of Doyle,
TN, Apr. 16, age 73

JOHN W. GOULD, '68, of The Villages,
FL, Nov. 2, age 75


LYNN M. (GOTSHALL) GREEN, '68, of
Milford, May 31, age 73

JEFFREY G. HARTMAN, '68, of Grand
Rapids, Jun. 6, age 77

JOSEPH P. HERDUS, '68, of
Kalamazoo, Jun. 19, age 74

HARRIS R. JERRETT, '68, of
Burtchville, Apr. 8, age 75

JUDITH M. JOHNSON, '68, of Washoe
Valley, NV

 **MINERVA LOPEZ, '68**, of Bay City,
May 27, age 76

DAVID G. MEILSTRUP, '68, of Santa Fe,
NM, Jun. 18, age 73

BARBARA J. ROSSMAN, '68, of Spokane, WA, Jun. 12, age 73

RONALD L. SISSON, '68, of Holland, Apr. 22, age 84

JOSEPH D. SMITH, '68, of Kalkaska, May 26, age 74

CARL L. STRODTMAN, '68, of Grand Rapids, May 16, age 101

MARY M. SUMNER, '68, of Miami, FL, May 31, age 74

JUNIUS E. TAYLOR, '68, of Phoenix, AZ, Apr. 4, age 84

THOMAS F. WALL, '68, of Green Bay, WI, May 29, age 79

DOTTIE M. ANDERSEN, '69, of Nokomis, FL, Apr. 29, age 99

GERALD T. CATANIA, '69, of Benton Harbor, May 13, age 74

RONALD G. KUNOLD, '69, of Hemlock, Apr. 13, age 73

EUGENE T. LACROIX, JR., '69, of Caledonia, Jun. 20, age 72

ANNE L. MADSEN-NASON, '69, of Albuquerque, NM, May 11, age 74

SANDY MCANDREW, '69, of Champaign, IL, Jun. 2, age 76

BRIAN W. NAGLE, '69, of New Albany, IN, Jun. 7, age 79

PAULA M. NEESE, '69, of Duluth, MN, Feb. 18, age 72

WILLIAM H. PEACOCK, '69, of Damascus, MD, Jun. 5, age 90

ROBERT P. PONTZER, '69, of Milford, MA, May 3, age 86

THOMAS D. STEPHENS, '69, of Lehigh Acres, FL, Oct. 4, age 71

BETTY S. TAICLET, '69, of Mishawaka, IN, Mar. 31, age 75

BARBARA J. (HINZ) VANDUSSEN, '69, of Lansing, Mar. 27, age 72

RUTH N. WAKELAND, '69, of Bloomfield Hills, May 31, age 96

RONALD A. WATSON, '69, of Ormond Beach, FL, Oct. 26, age 72

CHARLES E. WHITE, '69, of Lansing, May 14, age 83

MARCIA L. WISE, '69, of Gwynn Oak, MD, May 26, age 74

1970s

ARTHUR G. ALDRICH, JR., '70, of East Falmouth, MA, May 2, age 87

JAMES F. CHOJNACKI, '70, of East Lansing, Mar. 24, age 72

CHRIS G. DAVENPORT, '70, of Lansing, Apr. 10, age 72

CAROL A. KOFFARNUS, '70, of Cleveland, WI, Apr. 20, age 79

WILLIAM F. MERCER, '70, of Nokomis, FL, Apr. 17, age 72

KENNETH R. OPPENHEIM, '70, of Fogelsville, PA

JOHN W. PAWLING, '70, of Feasterville Trevoise, PA, May 12, age 90

NORMAN PLATNICK, '70, of Philadelphia, PA, Apr. 8, age 68

ELMER J. SAUNDERS, '70, of Plano, TX, Apr. 27, age 72

KAREN M. (HESS) SCHEIDLER, '70, of Old Fort, NC, Oct. 2, age 71

PAULA C. (FINK) WOOD, '70, of Birmingham, May 18, age 71

ROBERT L. ZIOLKOWSKI, '70, of Northville, Apr. 30, age 75

MARY T. ALTURA, '71, of Goshen, NY, May 18, age 72

GARY F. FALKENSTEIN, '71, of Boulder, CO, Jun. 5, age 75

CARLA M. (SCHLOSSER) FREED, '71, of Mason, Jun. 8, age 71

ROLAND P. FREUND, '71, of Carlisle, PA, Apr. 9, age 80

CYNTHIA S. GOWEN, '71, of New York, NY, Apr. 5, age 71

C. WILLIAM HANICHEN, '71, of Norton Shores, Jun. 5, age 90

PAMELA S. (BUNNELL) JENNINGS, '71, of Roscommon, May 24, age 71

GERALD V. KELLY, '71, of Douglas, Jun. 6, age 78

BETSY A. KIEBLER, '71, of Jackson, Jun. 10, age 78

DOUGLAS MADDEX, '71, of Palm Harbor, FL, Nov. 6, age 72

WILLIAM J. MORRIS, JR., '71, of Denton, TX, May 24, age 90

BARBARA A. (JAGO) POWERS, '71, of Lansing, Jun. 17, age 73

CARL A. RAMROTH, '71, of Grand Rapids, Apr. 28, age 74

ELINOR J. (SCHMITT) RENNER, '71, of Okemos, Feb. 14, age 91

RICHARD T. SMITH, '71, of Gladwin, Mar. 6, age 71

ALBERT W. SNYDER, '71, of Travelers Rest, SC, Mar. 30, age 89

DONNA B. SWEENEY, '71, of Kissimmee, FL, Jan. 16, age 91

GARY W. BARBER, '72, of Sanford, NC, Apr. 27, age 69

JANE E. BECKER, '72, of Washington, D.C., Apr. 6, age 69

CHARLES E. BICY, '72, of Holt, Apr. 11, age 80

PAUL A. CATACOSINOS, '72, of Canton, Apr. 5, age 86

GEORGE S. DRAKE, '72, of Gainesville, GA, Apr. 30, age 78

THOMAS P. FLANAGAN, '72, of Carlsbad, CA, Mar. 18

EUGENE R. GLASER, JR., '72, of Perry, Apr. 24, age 69

JEROD L. GOLDSTEIN, '72, of San Francisco, CA, Apr. 9, age 79

GREG A. HASTINGS, '72, of Winterville, NC, Apr. 10, age 83

ARTHUR H. KINDLUND, '72, of East Lansing, May 23, age 72

STEPHEN R. MACDONALD, '72, of Holt, Apr. 2, age 72

EDWARD N. MCGRAW, '72, of Port Huron, May 7, age 75

DUANE L. MCLAUGHLIN, '72, of Berrien Springs, Jun. 23, age 69

JOHN C. MOMMSEN, '72, of Northbrook, IL, Apr. 11, age 78

GEORGE L. OIKARINEN, '72, of Calumet, Jun. 22, age 71

BARBARA C. (COE) ROBERTS, '72, of Kenai, AK, Mar. 27, age 77

DALE A. (GRIFFIN) SAFFORD, '72, of Iron River, Apr. 22, age 69

GEORGE R. SCHNECK, '72, of Appleton, WI, May 15, age 90

WENDY J. STREM, '72, of Marinette, WI, May 31, age 69

DOLORES A. TRAINOR, '72, of Royal Oak, Apr. 22, age 93

JAMES W. LAPCEVIC, '73, of Indiana, PA, Jun. 12, age 81

CHRIS A. LAWSON, '73, of Bluffton, SC, Jun. 11, age 68

RITA J. (BERNIER) LOO, '73, of Jackson, Jun. 8, age 69

JOHN W. LOUNSBURY, '73, of Knoxville, TN, Jun. 4, age 73

KEVIN C. MCCUE, '73, of Escondido, CA, Apr. 8, age 68

DAVID C. OTTO, '73, of Tavernier, FL, Mar. 17, age 68

GORDON L. RINTOUL, '73, of Saint Petersburg, FL, Nov. 14, age 68

TIMOTHY L. ROHRMOSER, '73, of Chesterfield, VA, Apr. 8, age 68

CHARLES R. SANDLIN, '73, of Leesburg, FL, Nov. 11, age 74

 **HUGH M. SMITH, '73**, of Royal Oak, May 3, age 68

MARK L. STEVENS, '73, of Bay City, Mar. 29, age 68

JEANNE A. (RAYNER) WATT, '73, of Midland

JESSE D. WILLIAMS, '73, of Everett, WA, Apr. 26, age 69

CHARLES T. WOODS, '73, of Tucson, AZ, Apr. 8, age 82

SHARON K. (HEIKKILA) BASCO, '74, of Walpole, ME, May 9, age 67


JOHN R. BEACH, '74, of Columbus, IN, May 22, age 68

FRANK J. BOYLE, '74, of McLean, VA, Apr. 5, age 81

NATHEL BURTLEY, '74, of Flint, Apr. 6, age 79

KIRK O. DETHLEFSEN, '74, of Grand Ledge, Jun. 11, age 67

ROBERT A. GETZ, '74, of Marquette, May 31, age 68

 **GRACE C. (SCHMIDT) HOFFER, '74**, of Okemos, May 3, age 91

WILLIAM LEFKOFSKY, '74, of Palm Beach Gardens, FL, Nov. 22, age 82

DOYAL V. LITTLE, '74, of Lansing, Mar. 30, age 68

ROBERT R. LUDEMAN, '74, of Berrien Springs, May 30, age 91

IN MEMORIAM

ROBERT G. MCHOLME, '74, of Quincy, May 11, age 68

DAVID A. MEESE, '74, of Manitou Springs, CO, May 7, age 69

THOMAS B. OLMSTEAD, '74, of Saint Augustine, FL, May 27, age 73

JOHN W. PETTIT, '74, of Woodland Hills, CA, Apr. 16, age 78

BRUCE D. SMITH, '74, of Detroit

JEROME E. SPAUDE, '74, of Fond Du Lac, WI, Apr. 19, age 91

JEFFREY R. VINCENT, '74, of Saint Johns, Jan. 5, age 68

JOHN C. WHITMORE, '74, of Saint Paul, MN, Apr. 8, age 69

ELLEN CARTER-JOYNT, '75, of Ann Arbor, May 15, age 79

JILL M. ELLIOTT, '75, of Huntington Beach, CA, Feb. 3, age 67

NANCY J. (MARX) GILES, '75, of Lansing, Mar. 31, age 66

MELEA M. GROBBEL, '75, of Grosse Pointe Woods, May 7, age 67

J MICHAEL HILL, '75, of Allen Park, Feb. 5, age 67

CHARLES F. MOLES, '75, of Chicago, IL, Apr. 1, age 66

CECILIA M. MORRIS, '75, of Wayland, Apr. 25, age 79

 **DON E. SCHULTZ, '75**, of Chicago, IL, Jun. 4, age 86

JOSEPH A. CERCONI, '76, of Rogers City, Feb. 28, age 67

NANCY C. (EGBERT) CLEMENTS, '76, of Chapel Hill, NC, Jun. 10, age 70

PAULA K. DAVIDSON, '76, of Venice, FL, May 5, age 65

DOUGLAS G. FRAKES, '76, of Williamston, Mar. 27, age 65

SUSAN B. FURLOW, '76, of Minneapolis, MN, Apr. 19, age 66

KENNETH A. GEORGE, '76, of Holt, May 31, age 72

RENEE S. LIPSON, '76, of Silver Spring, MD, May 1, age 89

CHERYL M. MOWRIS, '76, of Atlanta, GA, May 26, age 72

SCOTT J. RIEL, '76, of Manchester, NH, May 31, age 69

JENNIFER J. ROGERS, '76, of Holt, May 19, age 67

BRUCE M. SARTORELLI, '76, of Iron River, May 19, age 66

ROBERT F. WHITE, '76, of Clarkston, May 26, age 66

JOAN E. (VONMOOS) ZAVITZ, '76, of Cockeysville, MD, Jan. 20, age 84

KENNETH S. BIRNBAUM, '77, of Ardsley, NY, May 9, age 65

GERALD P. HUTCHISON, '77, of Battle Creek, Jun. 20, age 67

FRANCIS J. KELLY, JR., '77, of Eaton Rapids, May 28, age 64

MARY T. MATUZAK, '77, of Fairborn, OH, Jun. 8, age 90

WILLIAM M. SCHRAUBEN, '77, of Jackson, Apr. 25, age 66

BARBARA (MERDLER) SCHULTZ, '77, of Elmira, NY, Apr. 21, age 64

EDWARD J. ZASKE, '77, of Los Alamos, CA, Apr. 21, age 69

THOMAS W. BANKS, '78, of Wellesley Hills, MA, Apr. 13, age 65

BETTY J. EVERARD, '78, of Kissimmee, FL, Oct. 15, age 76

NANCY H. (HORGAN) FLOWER, '78, of Grand Rapids, May 23, age 69

DAVID E. HYRE, '78, of Destin, FL, Jun. 9, age 76

MARLENE L. KREININ, '78, of Lexington, MA, Mar. 27, age 86

JOANN M. (MIDLICK) ROBB, '78, of Grand Rapids, May 14, age 64

MICHAEL R. ANDERSON, '79, of Columbus, OH, Apr. 17, age 65

CHRISTINE A. DUDLEY, '79, of Brighton, May 22, age 63

JOY A. GILLET, '79, of Easton, PA, Apr. 9, age 62

ODELL JOHNSON, '79, of West Bloomfield, Jun. 13, age 81

ROBERT K. KUFFA, '79, of Ortonville, Mar. 31, age 74

RICK A. LIGHTON, '79, of Okemos, Apr. 17, age 67

STEPHANIE F. MOUBRAY, '79, of Saint Johns, May 15, age 78

FREDERICK H. OLIVER, '79, of Dallas, TX, Mar. 13, age 63

DAVID J. PAKONEN, '79, Mar. 21, age 62

KAREN M. ROCHE, '79, of Lake Elmo, MN, Apr. 30, age 61

 **SALLY A. SCHMITT, '79**, of Minneapolis, MN, Feb. 27, age 62

KEVIN M. SMITH, '79, of Harrison, Mar. 23, age 68

PATRICIA A. SMITH, '79, of Saint Petersburg, FL, Mar. 27, age 75

1980s

WILLIAM C. CRAFTON, '80, of Lake Orion, Apr. 16, age 67

PAUL M. JUNGEL, '80, of Wood Dale, IL, Apr. 30, age 70

RONALD D. LEWIS, '80, of Grayling, Apr. 27, age 64

ROBERT MARTIN, '80, of Milford, Apr. 13, age 66

JANE P. BARNES, '81, of Concord, CA, May 10, age 62

BONNIE L. BROOKS, '81, of Grand Ledge, Mar. 20, age 60

ALBERT W. FINK, '81, of Crossville, TN, Apr. 28, age 79

PATRICIA J. FOGLE, '81, of Ashville, PA, Apr. 18, age 74

WILLIAM E. MAIER, '81, of Kalamazoo, Apr. 8, age 61

JANET L. MORAN, '81, of Collegeville, PA, Apr. 29, age 65

DAVID F. PAGE, JR., '81, of Lansing, Mar. 25, age 62

ALICIA L. WESTCOTT, '81, of Lansing

DOUGLAS L. WILCOX, '81, of The Villages, FL, Feb. 19, age 73

KEVIN R. BEAMISH, '82, of Owosso, Jun. 10, age 63

DAWN E. (SAYRE) DURKEE, '82, of Grand Haven, Jun. 3, age 61

MARK C. FLETCHER, '82, of Royal Oak, Apr. 18, age 60

BEVERLY R. (JOHNSON) MCCREADY, '82, of Sault Sainte Marie, Apr. 8, age 60

DONALD L. WIEBER, '82, of Palm Coast, FL, Mar. 7, age 87

DOUGLAS K. YEE, '82, of Oak Creek, WI, Jan. 9, age 61

SUNG-JA YOO, '82, of Wynnwood, PA, Apr. 25, age 84

SADIE D. LEONARD, '83, of Benton Harbor, Jun. 14, age 83

JAMES M. RUMBOLZ, '83, of Sioux Falls, SD, Jun. 16, age 88

MAUREEN L. (ALLEN) BEAVERS, '84, of Laingsburg, May 9, age 69

ELLEN M. EISELE, '84, of Sturgis, Jun. 14, age 58

MICHAEL K. JOHN, '84, of Rockford, Apr. 25, age 59

NICHOLAS J. LEONE, '84, of Cedar, Apr. 9, age 60

ADAM L. MAY, '84, of North Falmouth, MA, Apr. 21, age 58

SCOTT R. MCPHEE, '84, of Bay City, Apr. 23, age 60

MARIANNE C. WHEELER, '84, of Horn Lake, MS, Apr. 16, age 60

NICHOLAS DUDYNSKAY, '85, of Chicago, IL, Mar. 7, age 61

REID A. FRANCIS, '85, of Cassopolis, Apr. 11, age 57

JOHN M. GRAJEK, '85, of Mount Pleasant, Apr. 16, age 72

HERBERT D. LEVITT, '85, of Grosse Pointe Park, May 18, age 91

STEPHEN W. MCELVANY, '85, of Laurel, MD, Apr. 8, age 61

SHERYL A. (WRAY) NIED, '85, of Concord, NC, Jun. 17, age 62

WUYI SO, '85, of San Diego, CA, Mar. 17, age 100

WILLIAM A. STEBNER, '85, of Traverse City, Jun. 20, age 66

JAY U. STERLING, '85, of Tuscaloosa, AL, May 28, age 86

RINEHART WILKE, '85, of Virginia Beach, VA, May 11, age 56

SHARON L. WORKMAN, '85, of Mason, Jun. 24, age 89

LAURA F. FISH, '86, of Cape Coral, FL, Oct. 5, age 59

JOAN M. (JENSEN) GOODSHIP, '86, of Henrico, VA, Jun. 24, age 88

NORA M. MAHER, '86, of Blissfield, May 12, age 57

 **STEVEN B. COOK, '87**, of Lake Odessa, May 12, age 63

GARY A. HENGESBACH, '87, of Westphalia, Jun. 18, age 57

KAREN E. MAGEE, '88, of Cheboygan, Apr. 14, age 55

ANGELA R. MASSENBERG, '88, of West Bloomfield, Apr. 7, age 60

ERIC T. SHELLBERG, '88, of Hazel Park, May 23, age 57

DAVID E. ZAKRZEWSKI, '88, of Warren, Jun. 8, age 57

NORMAN C. KOHLSTRAND, '89, of New Boston, May 26

BARBARA A. LEHTO, '89, of Saint Ignace, Mar. 20, age 80

VANANH THANHTR PHAM, '89, of Commerce Township, May 16, age 54

1990s

GREGORY S. DUGGAN, '90, of Sterling Heights, Mar. 17, age 53

ANDREW HEIDENREICH, '90, of Holland, Apr. 16, age 52

JEFFREY S. LULENSKI, '90, of San Jose, CA, Apr. 24, age 52

ELLEN L. SPIRES, '90, of Tekonsha, Apr. 22, age 78

RICHARD C. STEELE II, '90, of Bay City, Apr. 4, age 52

AUDREY M. WELLS, '90, of Frederick, MD, May 28, age 51

LISA K. (SOWTON) DAMAN, '91, of Lansing, May 30, age 52

ROBERT M. GOULD, '91, of Brighton, Apr. 19, age 52

MARYELLEN A. (MATSON) JANSEN, '91, of Lansing, May 14, age 51

LORRAINE L. (RITTENGER) NEZWEK-GREEN, '92, of Lake Orion, Mar. 21, age 73

STEVEN G. PARDO, '92, of Livonia, Jun. 27, age 50

KIMBERLEY A. PILLOW, '92, of Blythewood, SC

JONATHAN A. SCOTT, '92, of Richland, Apr. 23, age 51

KENNETH C. MANGE, '93, of Petaluma, CA, Apr. 29, age 67

ELIZABETH G. ROOS, '93, of Traverse City, Apr. 13, age 63

CAROL M. GOSLIN, '94, of Traverse City, Mar. 31, age 58

GREGORY B. OLNEY, '95, of Nashville, Jun. 4, age 73

KURT C. MARTYN, '96, of Chicago, IL, Apr. 18, age 46

PATRICIA L. PEEKE, '96, of Hellertown, PA, May 26, age 53

FAYE M. REYNOLDS, '97, of Carlsbad, CA, Apr. 30, age 45

THOMAS H. TRIESENBERG, '97, of Rockford, May 11, age 46

JOSEPH ROBINSON, '98, of Jackson, MS, Apr. 6, age 54

GREGG A. CLAUSEN, '99, of Scottsdale, AZ, May 12, age 51

PATRICK A. HUMPHREY, '99, of Owosso, May 30, age 49

ELIZABETH A. KNEPPER-MULLER, '99, of Wyoming, Jun. 25, age 64

 **PAUL L. VANSTON, '99**, of Grand Blanc, May 11, age 84

2000s

ARTHUR MCLEOD, '00, of Gary, IN, Apr. 2, age 43

THOMAS F. DAUGHERTY, '01, of Oak Park, Oct. 4, age 50

THOMAS R. ELLIOTT, '01, of Palm Springs, CA, Apr. 27, age 70

MARJORIE K. ELLIS, '01, of West Chester, PA, Apr. 6, age 53

JERYN M. FREDERICK, '01, of Coldwater, Jun. 11, age 67

OKEY M. MANNING, '01, of Lansing, Apr. 25, age 69

JULIA J. WIRTH, '02, of Grand Rapids, May 27, age 73

CHRISTOPHER J. THOMASON, '08, of The Villages, FL, Mar. 27, age 34

2010s

DAVID L. ALEXANDER, '11, of Honor, Apr. 5, age 63

SARAI GARCIA, '15, of Goodyear, AZ, May 1, age 27

SETH P. DOWLING, '17, of Bay City, Jun. 14, age 38

JAMIE T. NICHOLS, JR., '17, of Rock Hill, SC, May 4, age 28

JOSH D. SWEERS, '18, of Lansing, May 31, age 35

MELANIE A. BRYCE, '19, of East Lansing, Apr. 5, age 23

Faculty/ Staff

GLORIA J. APPLETON, of East Lansing, May 8, age 86

ROBERT S. BANDURSKI, of Grand Ledge, Feb. 16, age 95

NANCY L. BURD, of Midland, Apr. 10, age 78

ANDREW B. CAMPBELL, of East Lansing, May 18, age 91

RICHARD J. COLE, JR., of Williamston, Mar. 29, age 85

CHARLES R. DOWNS, of Puyallup, WA, May 3, age 92

SOPHIA ESTEE, of DeWitt, Feb. 21, age 89

MARY B. FALES, of Lansing, Feb. 27

JEANNE L. (SCHMUNSLER) FANCHER, of Bath, Apr. 27, age 78

MARTHA M. FORD, of De Pere, WI, Apr. 19, age 89

JO K. FOREST, of Mason, May 14, age 90

PHYLLIS HALE, of Lansing, Apr. 23, age 79

FREDERICK G. HENDERSON, of Punta Gorda, FL, Apr. 5, age 87

TIEN Y. LI, of East Lansing, Jun. 25, age 74

NANCY JOY (HIXSON) LONG, of Lansing, May 16, age 77

GLAFIRA O. MANUELL, of Lansing

CHARLES J. MCCracken, of Santa Barbara, CA, May 4, age 87

MARTHA L. MEADERS, of Okemos, Mar. 31, age 97

RUSSELL L. ROOSA, of Sun City Center, FL, Mar. 1, age 82

DAVID R. ROVNER, of Kennett Square, PA, May 22, age 89

LAURENCE SALISBURY, of Mason, Apr. 17, age 93

CYNTHIA J. SARVER, of East Lansing, Jun. 5, age 74

DWAYNE A. SORTOR, of Lansing, Apr. 1, age 51

JEANETTE ST. CLAIR, of Crozet, VA, Mar. 4, age 95

DANIEL J. STOLPER, of Palm Desert, CA, Jun. 9, age 85

SHIRLEY M. YELVINGTON, of Williamston, Feb. 11, age 89

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Our Gardens: an anchor in changing times

While campus will have a different rhythm this fall, some things will continue to hold us together. For example, the W. J. Beal Botanical Garden and the magnificent Carlisle Gates. Installed in 2009 the gates were a gift from Sandy Carlisle in honor of her late husband John. They have been offering a grand welcome to visitors ever since. The design was inspired by spring plants pushing through the forest floor. If you are nearby, they're worth a visit—don't forget to bring your face covering.

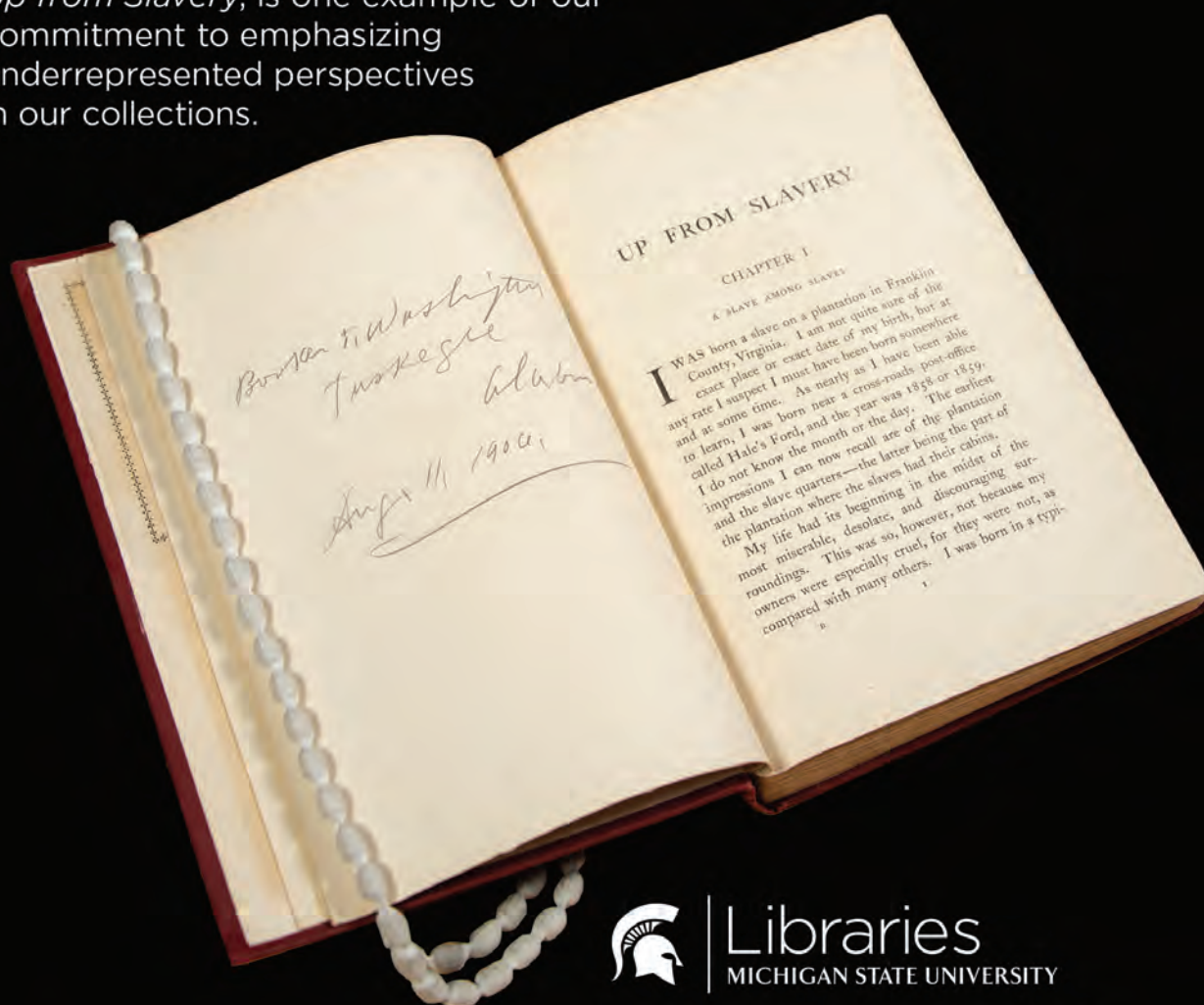
Black Lives Matter

An Invitation and a Promise from MSU Libraries

To the Black community at MSU: we hear you, we see you, and we stand with you. The MSU Libraries commit to continuing the necessary work to make our policies and practices anti-racist so that everyone feels welcome. We value and seek to preserve, amplify, and reflect the experiences of Black lives.

We welcome everyone to explore our collections and use our resources to cultivate respect, open communication, and connection.

This recent acquisition, a signed first edition of Booker T. Washington's autobiography, *Up from Slavery*, is one example of our commitment to emphasizing underrepresented perspectives in our collections.



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