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Contact the editor at daven125@msu.edu

About the cover: Dr. Mona Hanna-Attisha, a Spartan and a pediatrician, helped expose Flint's water contamination and is working to address its effects.

Photo: ©2016 Thomas Gennara, photographed first for Faith Catholic, faithpub.com.

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### PARTNERING IN MICHIGAN FOR **A BETTER TOMORROW**To appreciate how Michigan State University's rural 19

To appreciate how Michigan State University's rural 19th-century land-grant mission remains highly relevant in the urban 21st century, you need look no farther than Flint. Michigan State has been partnering with the city for more than a century, working together to solve local problems and to empower residents to reach their full potential.

The response to Flint's municipal water crisis is the latest example of our coming together to meet immediate needs and to create long-term solutions. It's also an example of how MSU's commitment to its mission of education, research, and outreach and service makes an extraordinary impact on the state and the world around us.

One Spartan who has demonstrated that kind of commitment to the children and families of Flint is the College of Human Medicine's Dr. Mona Hanna-Attisha, profiled in this issue. You'll read how she and a team of MSU and Hurley Children's Hospital doctors and researchers discovered elevated lead levels in Flint children and intervened on their behalf.

Hanna-Attisha is the director of the pediatric residency program at Hurley and now will lead the development of the MSU/Hurley Pediatric Public Health Initiative, a long-term program to monitor and support the health and development of Flint's children.

Even before she became one of the dedicated faces of the Flint crisis response, Hanna-Attisha was positioned to make a difference, armed with the knowledge, networks, and indeed the fortitude necessary to rise to the challenge. She and other MSU faculty and researchers, along with a host of programs, provide a firm foundation that enabled us to launch a swift response to the needs of the community. That's due in large measure to the College of Human Medicine's expansion of its public health program in Flint several years ago with the support of our longtime community partner, the Charles Stewart Mott Foundation.

Rooted in partnerships with local hospitals that have provided training for physicians for some 40 years, the program is a textbook example of how Spartans partner with communities to co-create solutions that meet their specific needs. It illustrates the difference MSU's community-based assets make throughout Michigan, whether we're talking about health care, agriculture, the environment, education, entrepreneurship, or municipal finance.

Spartans are there, and we'll be there tomorrow. Just as we'll be in Flint long after the national spotlight has dimmed.

Lou Anna K. Simon, PhD President, Michigan State University

Read more about MSU's activity in Flint on pages 20 - 31 and at go.msu.edu/msu-and-flint



### BE SPARTAN **LOYAL**

"It's the best thing you ever did." That's the common theme of the feedback I've received since eliminating the dues requirement for MSUAA Membership. All you

> have to do to declare your connection with us is to share or update your contact information on an annual basis and you can enjoy all the benefits of being part of the MSU Alumni family.

> Those who take advantage of this no-cost option receive this publication electronically. That's one of the few differences between our new open-to-all-Spartans philosophy and what we've come to call being "Spartan Loyal."

What does it mean to be Spartan Loyal? For some, it means being inspired to invest in the

MSU missions closest to their hearts. Annual giving to Michigan State is up and many former MSUAA duespaying members have renewed their commitment to MSU under the Spartan Loyal banner.

It's really an easy thing to do. If you were previously an MSUAA life member, you're already Spartan Loyal, as is any alumnus or friend who gives \$100 - \$499 annually. Support the Spartan Marching Band, WKAR, The Broad Art Museum, any of our 600 plus student-run organizations, the MSU Alumni Association Endowment or the Sparty Program and, at this giving level, you're Spartan Loyal.

There are as many ways to show your love for MSU as there are bricks in Beaumont Tower. Eliminating

membership dues makes it easier than ever to express that love.

And what truly is "membership?" It is said that younger generations don't join things; they support causes. We've seen this every year in MSU's Global Day of Service, in dozens of crowdfunding projects like the annual Alex's Great State Race that benefits our Resource Center for Persons with Disabilities, and at amazing events like the breathtaking Chicago Spartans' annual SpartyBall.

Once upon a time, membership was a way to brag about exclusivity. At MSUAA, we prefer to "associate" ourselves with inclusivity. That's why we embrace all alumni, and why membership is fading into the lexicon of the past.

When you decided to attend MSU, you instantly became a member of a unique group of individuals, dedicated to serving one another and the greater good. You don't need to pay a fee to be one of us. But we do hope you will invest some of the bounty you've earned as a result of your Spartan experience, and pass it on!

W. Scott Westerman III Executive Director, MSU Alumni Association

Learn more on pg. 11 about MSU's Annual Giving Program.

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### **MSU RESEARCHER STUDYING**

### FOOD SAFETY OF PRODUCE

By Holly Whetstone, MSU AgBioResearch

Michigan State University AgBioResearch scientist Hui Li has been awarded a \$475,000 grant from the U.S. Department of Agriculture to study human exposure to the harmful chemicals present in fresh produce.

Addressing a primary aspect of food safety, Li's research will focus on produce absorption of pharmaceutical and personal care products, commonly known as chemicals of emerging concern, or CECs. Consumption of these chemicals may lead to increased antibiotic resistance and other health issues.

A better understanding of how vegetables absorb CECs from soil and water will help the scientific community in its efforts to reduce these chemical risks.

"The human health consequences of chronic exposure to an undefined mixture of pharmaceuticals designed to be bioactive at low concentrations are largely unknown, but potentially of enormous significance," Li said.

### MICHIGANDERS REMAIN UPBEAT ABOUT ECONOMY

By Andy Henion, Communications and Brand Strategy

Consumer confidence in Michigan dipped slightly in the fall but remained relatively strong as the state continues to ride a long-running wave of financial optimism.

Michigan State University's quarterly *State of the State Survey* found that nearly 58 percent of state residents rate their financial situation as excellent or good. That's down from 60 percent in the previous survey but still one of the highest marks since more than a decade ago.

"The latest consumer confidence numbers are a continuation of the long trend toward greater confidence and optimism about the economy in the years since the Great Recession," said Charles Ballard, MSU economist and survey director.

Ballard said consumer confidence runs roughly arm-in-arm with employment. After dropping steadily from 2000 to early 2010, Michigan's employment level has grown every year since.

"However, even after nearly six years of pretty decent job growth, we are still only a little more than halfway back to where we were in 2000," Ballard said. "Employment is still more than 400,000 jobs below its all-time high."

The State of the State Survey is the only survey conducted in Michigan. It has been conducted since 1994 by the Institute for Public Policy and Social Research. IPPSR is a unit of MSU's College of Social Science.







ATF's Jeff Perryman and Ike.

### LAW ENFORCEMENT DOG SAVED BY MSU VETS

By Judy Putnam, Lansing State Journal

Jeff Perryman, a federal agent who lives in DeWitt, stayed by his law enforcement partner's side for five days after major surgery.

Perryman had to crawl into a cage to do that.

His partner, Ike, is a 75-pound German shepherd. He's one of 11 highly trained dogs in the country used by the federal Bureau of Alcohol, Tobacco, Firearms and Explosives to apprehend potentially violent suspects.

Perryman credits quick-acting veterinarians at Michigan State University for saving the 7-year-old dog's life in late January.

ATF has 10 K-9 teams based in five U.S. cities, including Detroit. Perryman and Ike make up the 11th team. Perryman manages the ATF program, and he and Ike travel 50,000 miles a year. "We go with any team that needs an extra dog," he said.

Though Perryman said he can't talk about most cases they work on, the pair participated in a massive seven-week manhunt in 2014 through dense forest for survivalist Eric Frein, who is accused of killing a Pennsylvania state trooper and wounding another. Frein was caught near an airport hangar, though not by Ike.

Ike is especially adept at tracking, and unlike most other dogs, can be let off a

leash. He will pause based on a sound signal and wait for agents to catch up where other dogs would be unstoppable once on the trail.

"Everything is very clear to him. He learns quickly. He loves to train, loves to work. He enjoys people. He understands when to work and when to play," Perryman said.

Ike first became ill at the ATF's National Academy in Brunswick, Georgia. He had symptoms of "bloat" or gastric dilatation-volvulus, a condition in which the stomach twists. Untreated, he could die. Perryman rushed him to an after-hours clinic and a vet untwisted the stomach during surgery.

Ike and Perryman traveled home to Michigan five days after surgery. But just two days later, Ike became violently ill again.

Perryman hurried him to the MSU Veterinary Medical Center, where residents at first thought he had a complication from the previous surgery. Veterinarian Ari Jutkowitz ordered an ultrasound after suspecting another cause, a rare condition where the entire intestinal tract twists, called mesenteric volvulus.

Jutkowitz was right. The ultrasound showed no blood flow to the digestive tract and Ike underwent surgery by vet school residents Andrew Armstrong and Krista Gazzola with Jutkowitz and anesthetist Jennifer Devoe working to keep him alive.

Jutkowitz told Perryman that the odds of survival were slim.

Yet Ike pulled through, with Perryman staying through the night in his large cage during recovery. Ike would howl when Perryman tried to leave.

"It was touch and go for a while," Perryman said.

More than a month later, Ike was back to normal, cavorting with a toy and sitting quietly when told.

Perryman was so grateful to MSU that when Ike's stitches were scheduled to be taken out Feb. 12, he took a U.S. flag that was flown over ATF's headquarters in Washington D.C., a hand-written note from ATF Head Thomas Brandon and a plaque to thank the MSU Veterinary Medical Center.

Ike is more than a work partner, and his close call with death shook up Perryman.

"It's like a family member that goes to work with you every day, that goes home with you every night, and throughout that time period, they watch your back and protect you," Perryman said. "He's tremendous."

Reprinted with permission of the Lansing State Journal.



### LINKED TO FALSE CONFESSIONS

By Andy Henion, Communications and Brand Strategy

Sleep-deprived people are more likely to sign false confessions than rested individuals, according to a study that has important implications for police interrogation practices.

The odds of signing a false confession were 4.5 times higher for participants who had been awake for 24 hours than for those who had slept eight hours the night before.

Led by Kimberly M. Fenn, associate professor of psychology, the study was published in *Proceedings of the National Academy of Sciences*.

"This is the first direct evidence that sleep deprivation increases the likelihood that a person will falsely confess

to wrongdoing that never occurred," said Fenn.
"It's a crucial first step toward understanding the
role of sleep deprivation in false confessions and, in
turn, raises complex questions about the use of sleep
deprivation for interrogation."

False confessions in the United States are thought to account for 15 percent—25 percent of wrongful convictions. Past research has indicated that the interrogation of sleep-deprived suspects is commonplace.

To protect against the harmful effects of false confessions, Fenn and her co-authors recommend interrogations be videotaped, giving judges, attorneys and juror insight into a suspect's psychological state.

"A false admission of wrongdoing can have disastrous consequences in a legal system already fraught with miscarriages of justice," the authors conclude. "We are hopeful that our study is the first of many to uncover the sleep-related factors that influence processes related to false confession."

### WOMEN MORE SENSITIVE TO IRKSOME BEHAVIOR

THAN MEN

By Andy Henion, Communications and Brand Strategy

Women may be friendlier than men, but that doesn't mean they like putting up with jerks.

A new study led by a Michigan State University psychology professor suggests women are more likely than men to get irked at irritating or boorish behavior exhibited by acquaintances, friends or partners.

"Women generally are more sensitive to other people's annoying behavior than men," said MSU's Christopher J. Hopwood, a researcher and practicing therapist. "They're maybe more socially aware, on average, and so perhaps it's easier for them to pick out things that are annoying."

The study examined a number of aversive behaviors such as being antagonistic, controlling and overly or inappropriately affectionate.





Artist unknown, Untitled (Bhagavada Purana), c. 18th century.



### THE BROAD ART MUSEUM

### A Brief Visual History of South Asia

April 1 – September 11

This exhibition draws together a diverse array of artworks and cultural artifacts from the subcontinent of South Asia, providing a brief historical overview of this region by way of its visual and material culture. The exhibition is composed of paintings, manuscripts, sculptures, embroidered fabric and cultural artifacts. Much of the content presented is religious in nature, which in part acknowledges how different—and at times, competing—religious belief systems exerted great force in the shaping of individual and collective life in the region.

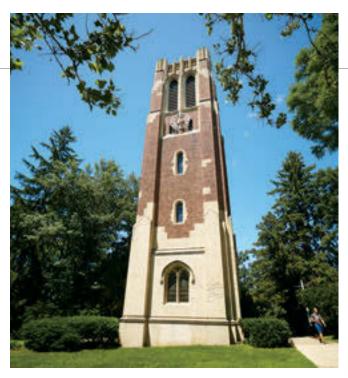
Gideon Mendel, Florence Igbogene, Bayelsa State, Nigeria, November 2012. Courtesy of the artist

### Drowning World: Gideon Mendel

May 13 – October 16

Drowning World is a visual attempt to capture the magnitude of climate change through portraits of flood survivors taken in deep floodwaters within the remains of their homes or in submerged landscapes. They invite the viewers to reflect on our impact on nature and ultimately on our own attachment to our homes and personal belongings.





### THE COLLEGE OF MUSIC

### Muelder Summer Carillon Series

The MSU College of Music will present the 20th Annual Muelder Summer Carillon Series, with five consecutive Wednesday recitals beginning July 6 through August 3, at the MSU Beaumont Tower, each beginning at 6 p.m., rain or shine. Concerts are free and open to the public. Picnics welcome.

July 6 Tiffany Ng, University of Michigan

July 13 Tin-Shi Tam, Iowa State University

July 20 Ray McLellan, MSU

July 27 Hylke Banning, The Netherlands

Aug 3 Mathieu Polak, The Netherlands



music.msu.edu

### THE WHARTON CENTER

### The Bridges of Madison County

May 19 - May 22

Based on the best-selling novel of the same title by Robert James Waller, this musical adaptation tells the story of an Iowa housewife, Francesca Johnson, and her life-changing, four-day whirlwind romance with traveling photographer, Robert Kincaid. It's an unforgettable story of two people caught between decision and desire, as a chance encounter becomes a second chance at so much more.

Featuring gorgeous, soulful music that draws upon the rich textures of Americana and folk and the sweeping balladry of classic Broadway, Joe Dziemianowicz of the New York Daily News hails it as "...one of Broadway's best scores in the last decade."

### The Book of Mormon

June 14-19

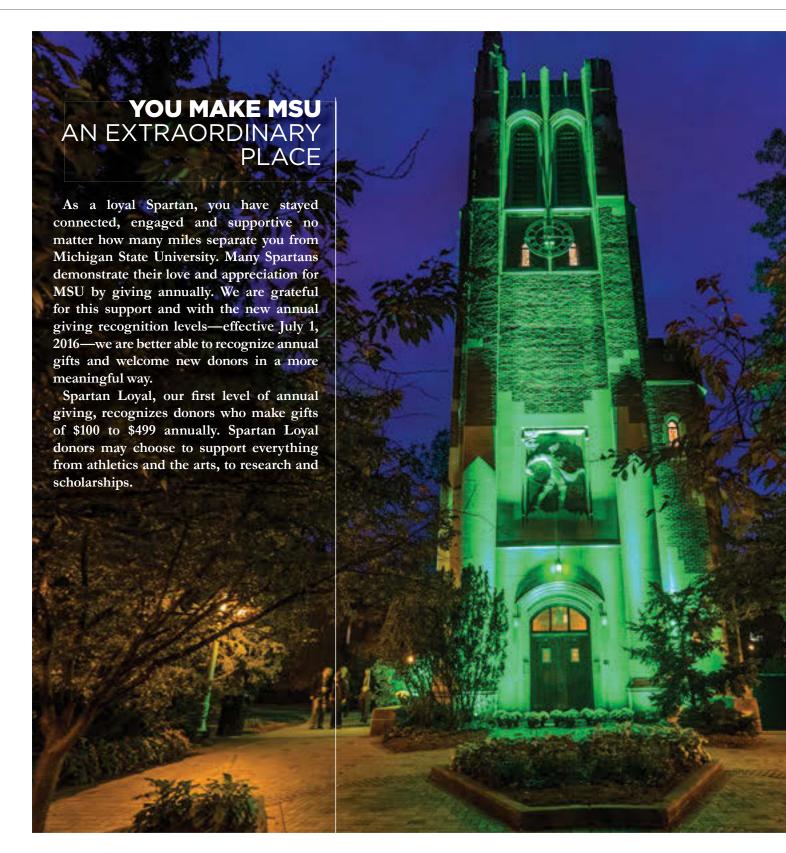
By popular demand, *The Book of Mormon*, which played a record-breaking week-long run in 2014, returns to East Lansing for a limited engagement. From the creators of South Park, this nine-time Tony Award Winning musical tells a story of religious satire. The New York Times calls it "the best musical of this century." The Washington Post says, "It is the kind of evening that restores your faith in musicals." And Entertainment Weekly says, "Grade A: the funniest musical of all time." Contains explicit language.

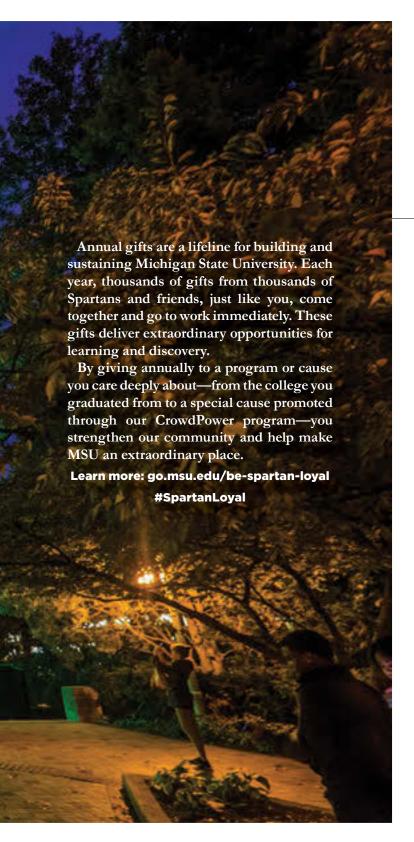












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# Rob Roy Way, Scotland

### **MATT DURFEE:**

### FINDING PEACE IN MOTION

Matt Durfee remembers hard nights of studying and many hours of working after class, on weekends and during vacations to pay for his tuition at Michigan State. But he also warmly remembers some calmer times. "I would say some of my fondest memories were walking through campus along the Red Cedar and just seeing the sights, particularly when it was a football Saturday," he said.

Years later, Durfee has found a replacement for those casual walks across campus: 100-plusmile treks across the United Kingdom with his club, Bucket List Hiking.

The club, made up of Durfee's colleagues and friends, hikes by day and relaxes in quaint local inns by night, allowing the trekkers to rest, refuel and enjoy the sights. The group—usually about five people—has taken four official hikes over the past five years in Scotland and England, hiking across the Isle of Wight, Rob Roy Way, Great Glen Way and Hadrian's Wall.

While these aren't typical tourist stops, for Durfee they're perfect. He is drawn to the rich history of Europe. "I guess you would say that I'm a student of the Roman Empire," he said. During hikes, he and his crew pass ruins of that empire, castles and defensive structures from World War II and other wars.

"When I'm up on the hills looking down, it becomes a con-

nection with both the history, as well as nature and there's an intrigue to that," he said.

Durfee grew up in Flint and came to MSU seeking a future beyond working in the automotive factories back home. He's worked as a human resources executive for more than 25 years. Today, he runs The Navigator Institute in Orlando, Florida, teaching job search skills and providing career transition services to both individuals and companies throughout the

He hopes to one day combine his hiking excursions with his work. Clients could join him on a hike, getting a chance to recharge and contemplate while working through their career or business challenges. Durfee would be their walking, talking job coach.

But until then, Durfee will keep traveling and hiking with friends and anyone else brave enough to join, enjoying the physical challenge and the spiritual experience.

"When I've been out there for a couple of days, in nature and in these small villages—away from my cell phone and the distractions and stress of everyday life—it truly does give me a chance to think and to reflect in a way that I have not been able to replicate in any other endeavor," he said.

~ Catherine Ferland

### **CHAD REHMANN:** MAKING MUSIC FOR FILM, TELEVISION AND MORE

Chad Rehmann started playing piano when he was 5. He was writing his own music at 10. By the time he turned 17, he'd composed his first orchestral piece.

Now 35, the St. Johns native has scored more than 40 films and TV shows, including romances, Westerns, children's animation and horror movie spoofs. He's written music for such greats as Sony Pictures, Paramount, the Discovery Channel, the National Hockey League, Bravo, HGTV and the Lifetime Network.

Landing such gigs was no easy feat. After earning his music degree at MSU, Rehmann and his wife packed their belongings in their used 2002 Saturn and struck out for Los Angeles.

"It's the kind of decision that only a 23-year-old can make," he said, laughing. "So many things could have gone wrong."

From there, his trajectory is the stuff of Hollywood legend. Busing tables, teaching piano lessons and accompanying church choirs paid the rent while he pursued composition projects.

Perseverance and talent eventually paid off when he landed his first film, *Adopting Change*, by answering an ad on Craigslist. Eventually, he could afford to make composing his full-time profession.

"I was in theater in high school...
and I was always drawn to storytelling," Rehmann said. But it was in
college, where he performed with
almost every musical group MSU
offered, that he learned to decode
the many emotions music can evoke,

which is instrumental to creating music for film and television.

How does it all happen? "In the perfect world, we get a 'locked' picture...(to which) there will be no more edits or changes. The director and I will sit down...and we'll watch the film, determine where music will go and why, and (discuss) the tone we want the characters to have," Rehmann said.

"Then I sit down at the piano and start noodling. I'll turn the movie on and watch it (while) playing. Very rarely does my first draft ever make it on film. It's through revisions that something else will rise," he said.

A pair of assistants serves as his sounding board. "They know right up front that I need honest feedback."

While composing for film and television is his passion, Rehmann also has his own story to tell.

"Musically, I still have a lot to say as a composer and I'm starting to carve out time to do that," he said. He composes concert hall pieces for ensembles and orchestras and even helps local musicians with their albums.

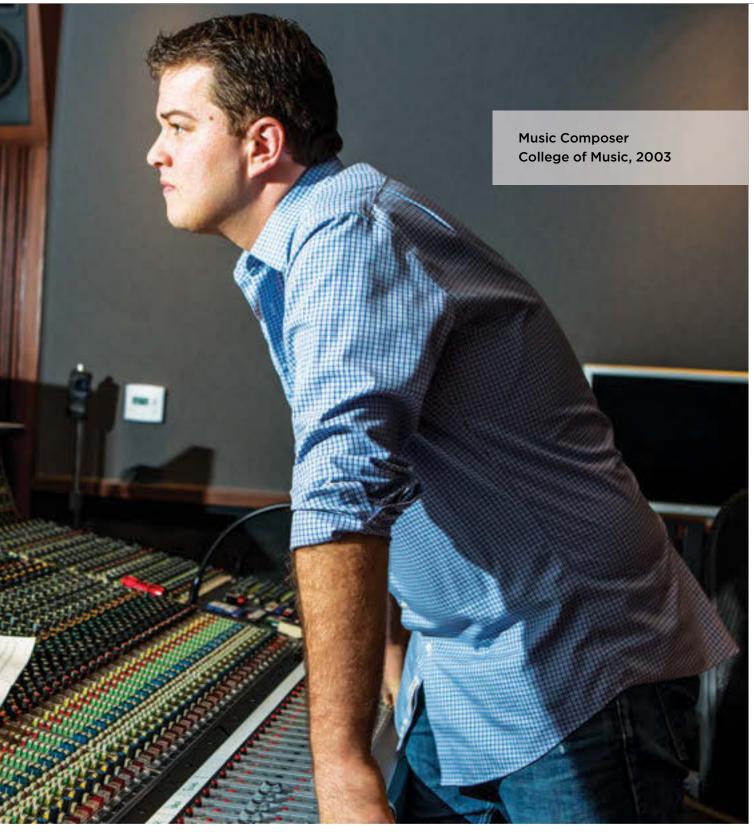
Rehmann hopes to be an A-list composer one day, working with a "massive ensemble" and composing for cinematic blockbusters. He knows that becoming the next John Williams or Hans Zimmer will take persistence and patience. "It's really about continuing to prove yourself over and over again."

~ Catherine Ferland





Photos: Andy Keilen



### **KELLY FOBAR DAVIS:**

### BUILDING A FORWARD-THINKING BUSINESS

Throughout her childhood, Kelly Fobar Davis dreamed of being a teacher, rallying neighborhood kids to attend the summertime "school" she set up in her basement in Livonia. MSU, with an excellent education program located "the perfect distance" from home, was a natural choice.

But after two years and some classroom experience, Fobar Davis reached a difficult conclusion: "I didn't have the patience that I thought I did," she said.

She decided communications and public relations were a natural fit for her social, talkative personality.

It turned out to be a good choice. Fobar Davis now owns a growing public relations agency in New York City focused on beauty and wellness.

Just over a year ago, KFD Public Relations was Fobar Davis and her assistant working at her kitchen table. Now she has seven employees, whom she affectionately calls "my girls," and 11 clients, with referrals coming in every week. Her clients, many of them successful startups, include Ipsy, Juice Beauty and Pressed Juicery.

Fobar Davis has built her career on nurturing connections. After graduation she worked as a personal assistant to national health and fitness guru Jim Karas in Chicago. Her parents thought it was a waste to be taking calls and fetching lunch, but Fobar Davis saw something more.

She made connections with the book editors, publicists and others in Karas' media world, and especially with Karas himself. "He became a mentor and almost like a second father," she said, helping her get into the competitive PR world in New York.

There, she went through several jobs, at agencies and at NARS Cosmetics, but nothing felt quite right.

She kept building connections, while clarifying her goals: She liked variety. She wanted to tell stories, not just "pitch product." And she didn't want to be left behind in the digital age.

In 2012 she began a consulting business, reaching out to connections to offer help. Projects lead to requests for representation and more clients. The growth has Fobar Davis, who had her first child in November, hustling to catch up—hiring an accountant, building a website (kfdpr.com) and designing a logo.

As she created the right job for herself, she noticed another improvement. "I found I was getting better press when I was in control," she said.

She's proud of running a "forward-thinking" business, and focused on keeping employees and clients happy. "People are looking for something different," she said. She aims to be honest and transparent with clients, and accepts only those that she feels are a good fit.

Her employees share in this process, so they, too, feel a sense of control. "I try to remember what it was like when I was at an agency and build a more positive, collaborative, creative environment for my team," she said. That includes an open vacation policy and work-from-home Fridays.

Like a lot of New Yorkers, Fobar Davis and her family make time to "just totally shut off" and recharge at their weekend home.

"It's stressful, but I see everyone and how happy they are, and that makes me feel good."

~ Nancy Nilles











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FOR THE SMALLEST

Dr. Mona Hanna-Attisha, '02, is an MSU professor and pediatrician at Hurley Children's Hospital who helped expose Flint's water crisis and is addressing its lasting effects.

Story By A.J. Moser Photos by Kurt Stepnitz, unless otherwise noted

Flint, Mich. –On a cold, snowy February morning, a little boy in the waiting room at Hurley Medical Center Children's Clinic sidled up to his mom and whispered in her ear.

She replied in a hushed tone. "Because," she said, "you drank the water."

"No," he whimpered. "I didn't. I didn't drink the water!"





Top: MSU's Flint Campus

Above: Dr. Mona Hanna-Attisha begins a medical check-up of Jamar Felton at Hurley Medical Center's Children's Clinic in Flint.

This mother, and hundreds more in Flint, were bringing their children into clinics largely to see Hurley pediatrician Dr. Mona Hanna-Attisha, also an assistant professor of pediatrics and human development at MSU's College of Human Medicine.

Residents and public employees in Flint had been voicing concerns about their water quality for months, bringing bottles of foul-looking liquid to city council meetings to protest. But no one would listen.

Hanna-Attisha refused to be ignored—and she had research on her side. "University research funding is vital to uncovering and exposing big problems like this," she said.

Hanna-Attisha had analyzed data from the routine blood tests given to children in Flint. "We saw that percentages of elevated lead levels were doubling, sometimes tripling across the city," she said. "And no one was doing anything about it."

The doctor and her team soon realized that the data correlated with the city changing the source of its water supply. Fearing a widespread health emergency, Hanna-Attisha shared the findings with the region's public health officials. They agreed that residents needed to be informed immediately that there was lead in the water they drink, cook with and bathe in.

That was last September. "On (a) Monday we brought our research to the city. We told them it had to be released by Wednesday or we would release the information (ourselves) on Thursday," Hanna-Attisha said.

The city failed to act.

So on that Thursday the pediatrician put on her crisp white coat and, with health officials by her side, held a news conference that revealed to the world the extent and duration of Flint's noxious water problem and its injurious effects.

Initially, government officials tried to discredit the research findings, accusing the doctor of wrongly sending residents into "near hysteria."

"Fortunately, all that only lasted about two weeks," Hanna-Attisha, 40, recalled in a recent interview at Hurley. "Eventually, they came around to say, 'Hey ... you were right."

By the end of that year, the controversy was national news. Media organizations including CNN, The New York Times, The Washington Post, USA Today, MSNBC's Rachel Maddow and The Boston Globe sought interviews with Hanna-Attisha. There were days when she granted 10 media interviews. Reporters flocked to Flint, where Hanna-Attisha took them on tours of Hurley. In between, she answered flurries of emails about the crisis.

Shortly after, the U.S. Congress requested that the doctor and others appear at a federal investigatory hearing in Washington, D.C., on the situation.

Praise has come in for the doctor's courage. "There aren't many people who can go this path. It takes an enormous personal toll," Marc Edwards, a civil/ environmental engineer and professor at Virginia Tech whose water tests helped unravel Flint's woes, told *In-Training*, an online magazine for medical students. "For Dr. Mona, it worked out. I cannot say enough in praise of her, and it gives me great hope that she's getting the accolades she deserves."

For Hanna-Attisha, it's all part of the job. "Innately, pediatricians are activists," she said. "We give immunizations, tell people to wear their seatbelts, have babies sleep on their backs. We work with families, we work with communities, we go to the Capitol and we advocate."

### **DRAWN** TO SERVICE

Hanna-Attisha said she fell in love with pediatrics during her time as an MSU medical student at Hurley. Her pediatric experience includes a residency at Children's Hospital of Michigan, part of the Detroit Medical Center.

Hanna-Attisha, who immigrated to the United States with her Iraqi parents when she was 5, grew up in Royal Oak. She said she's particularly interested in helping those in underserved communities. She purposefully chose Flint—where more than 40 percent of residents live at or below the poverty line—when she pursued her medical school education.

Dubbed "Dr. Mona" by the Flint community in the aftermath of her news conference, she directs Hurley's pediatric residency program and teaches at MSU's Department of Pediatrics and Human Development in the city.

"I chose (to attend) MSU for its service mission in underserved communities and for its altruism. ethics and professionalism," she said. "When you're an educator, the results are multiplicative. I want to instill this (advocacy work) in the next generation of pediatricians and public health professionals.

"That's what a land-grant university is all about."

### A CRISIS UNFOLDS

For two years, an estimated 8,000 Flint children under the age of six, along with other city residents, lived in homes where lead-contaminated water flowed from faucets. Many of these children have undergone sometimes painful blood draws in recent months.

Right: Dr. Mona Hanna-Attisha discusses coursework with medical resident Carline Mbeumo in an office at Hurley Medical Center.

Below: The Flint River





Children, because they're still developing, are extremely susceptible to lead poisoning. Lead exposure can cause irreversible neurological damage, lower intelligence and manifest itself as aggressive behavior later in life.

The problem began in 2014 when the city, on the cusp of bankruptcy and under a state-appointed emergency manager, switched its water supply from Lake Huron to the Flint River. The river water required treatment with anti-corrosives to flow safely through the city's older pipes. Authorities failed to take this step, allowing lead to leach from municipal pipes into drinking water.

As Hanna-Attisha told CNN, it was like "drinking through lead-painted straws."

Residents soon began complaining. The crisis started to bubble up when a Flint mother asked that the water in her home be tested. That caught the attention of Edwards at Virginia Tech, who compared lead levels in Flint's water with those of Lake Huron. The analysis found an alarming disparity with regions in the greater surrounding Genesee County area.

In the meantime, area doctors started hearing more patients complaining of nausea and pain.

Hanna-Attisha's results from the blood test analysis confirmed the situation in August 2015. During a chance encounter the previous year, she'd spoken with a high school classmate—

now a water engineer—who mentioned that Flint wasn't using anti-corrosives in its water.
Suddenly, all of the dots connected.

### FIGHTING A SILENT EPIDEMIC

In the wake of this crisis, there is a silent pediatric epidemic. There is no antidote or cure for lead poisoning. "Lead (exposure) is a problem of the future," Hanna-Attisha said.

It will take about two decades before the full extent and breadth of children's learning disabilities, loss of motor skills and increased aggression will be apparent.

But it's crucial to start work now to ameliorate the crisis, experts said.

"We are throwing every single intervention to these kids and we're doing it now," Hanna-Attisha said.

In February, MSU and Hurley Children's Hospital established an umbrella under which these and future efforts to help the children of Flint are organized. Hanna-Attisha is overseeing the efforts, formally known as the Pediatric Public Health Initiative.

The initiative continues assessment of research and long-term monitoring of the lead exposure in Flint's kids, as well as advocacy and implementation of programs to help them. Hanna-Attisha considers all of this work to be crucial, and noted that MSU and Hurley are perfectly positioned as partners with so many arms of positive influence in the area.

She said the initiative aims to identify and track children suffering from lead exposure, provide medical care to all Flint residents, help create a pre-kindergarten education program, increase the availability of healthy foods that help block the body's lead absorption and expand nutrition education.

"We owe it to these kids" to find ways to provide wraparound services for them and their families, she said.

This work takes place at a clinic located centrally in Flint, near the major bus station, making it as easy as possible for patients to reach their regular checkups. Encouraging this "long-term continuative care" and follow-ups with a primary care doctor is a major concern for Hanna-Attisha.

LeeAnne Walters, of Flint, pours gallons of bottled water into a bucket and pan to warm it for her twin sons to take a weekly bath. Son Gavin Walters looks on.





"The people of Flint already had every obstacle stacked against them," the doctor said. "And these kids did nothing wrong. It's time we refocus on the prevention of these issues."

### 'YOU CAN SEE THE **TRAUMA IN THEIR EYES**'

Although Hanna-Attisha is a prominent figure in bringing the Flint water crisis to light, she finds it just as important to remain hands-on in the field. "The interviews and the press conferences are nice, but this is my real job," she said between appointments with her young patients.

The daily communication and face-to-face interaction with patients remain the most important aspect of her career.

Every day the doctor deals directly with the fears of her patients and their parents. She begins a routine check-up by playing with the children, her friendly persona shining through, getting them to laugh, smile and talk about school.

Then she turns her attention to the concerned parent, watching from the corner.

"What are you doing about the water?" she asks.

She inquires about the use of filters on taps at home and any concerns with children's skin, rashes or irritable itching. Then she advises families to use bottled water as much as possible. The city even advises residents to use bottled water for bathing—something that just can't work.

"No one knows what is going on," Hanna-Attisha said of her young patients and their families. "It hasn't been easy. It's heartbreaking, you can see the trauma in their eyes. These are people who have experienced a governmental betrayal."

But she remains hopeful for Flint, once one of America's great auto manufacturing cities. "We put the world on wheels. We're going to weather this and have a better future."

All the while, Hanna-Attisha continues to teach physicians-to-be from MSU and other medical schools through Hurley Medical Center's pediatric residency program, relaying her mission of service to her students.

Her husband is also a pediatrician; they have two young daughters. Being a mother herself, seeing the influence of people who care about the community resonates deeply with the doctor. It's that aspect of family and community that drives her to never stop her education and outreach efforts.

"Doing this work guarantees a next generation of physicians who will espouse this work. MSU has had its footprint in Flint for over a hundred years. We are reinvesting in this population."

Nancy Nilles and Paula M. Davenport contributors

Whistle-blowers Dr. Mona Hanna-Attisha, an MSU alumna, and Marc Edwards, a Virginia Tech water researcher, recently made *Time's* annual list of The 100 Most Influential People.

### **NEW HEALTH INITIATIVE TO** SUPPORT FLINT CHILDREN'S **WELL-BEING**

By A.J. Moser

Following the Flint community's population-wide lead exposure, Michigan State University partnered with Hurley Medical Center to create a Pediatric Public Health Initiative aimed at helping affected families.

The partnership brings together experts from the fields of pediatrics, child development, psychology, epidemiology, nutrition, toxicology, geography, education and community workforce development. The Genesee County Health Department will also be working directly with MSU on the program.

Dr. Mona Hanna-Attisha will lead the collaborative effort. The projects will include expanding nutritional education and addressing the lack of access to healthy food options in affected areas. The joint venture is based in Flint at Hurley Children's Hospital.

The Pediatric Public Health Initiative will employ evidence-based interventions for the community in response to the Flint water lead exposure. The team of experts hopes to build a model public health program to continue assessing and monitoring the welfare of Flint's children.

Improved education, nutrition and medical care are key to the program's success.

Additionally, university researchers on MSU's Flint campus will continue the established mission of co-creating solutions with people in their own communities—long after the world's attention has moved on.

go.msu.edu/flint-help





### **GOOD FOOD CAN HELP** STAVE OFF LEAD'S EFFECTS

the MSU Extension.

By A.J. Moser

Nutrition education can benefit the people of Flint immediately. MSU and Hurley Medical Center are taking every step possible to teach residents about lead-fighting food. Hurley physicians may even write nutrition prescriptions that community members may fill at the Flint Farmers Market.

A short-term turnaround in diet is ideal to help the children of Flint. It is no accident that Hurley Children's Center was located one floor above the farmers market where staff members perform daily cooking demonstrations for recipes that can help alleviate lead and make children less susceptible to its harmful effects.

The dieticians use recipes—high in vitamin D, calcium and iron-rich foods, all of which can help block lead absorbtion in the body—from a booklet published by MSU's Extension and Hurley Children's Hospital.

"We can't go back in time," Dr. Mona Hanna-Attisha said. "These kids need the benefits of nutrition now. Flint is resilient it has so much pride. We have to do this. We owe it to our kids."



### FEEDING A CITY WITH BETTER FOOD SOURCES

By Sarina Gleason, Communications and Brand Strategy

Access to clean water hasn't been the only health issue facing Flint.

Since 2008, Michigan State University public health expert, Rick Sadler, has been mapping out areas of the city that have had almost no access to healthier food options and evaluating solutions that could help remedy the problem.

The Flint native's most recent study, published in the journal *Applied Geography*, has found that relocating the Flint Farmer's Market closer to the city's hub has brought cascading positive effects to area residents.

"The market has not only been good for the local economy, but for reaching people with challenges in accessing healthier food," said Sadler, who is also an assistant professor in the College of Human Medicine.

"That's important because farmers' markets are often perceived as being elitist, only benefiting a certain class of folks. Our local market has proven differently and represents a good cross section of the community.



MSU's Rick Sadler is a Charles Stewart Mott Endowed Professor of Public Health.

Sadler's research has shown that since its move in 2013, more customers have been coming to the market from neighborhoods representing the two highest classifications of socioeconomic distress. In 2015, 37 percent of residents from these areas frequented the market compared to 31 percent in 2011 when the market was in its earlier, less accessible location.

Moving the market near a bus station has helped too. Results related to how people got there showed that 21 percent of residents took the bus, walked or biked, compared to only 4 percent in 2011.



### MSU'S FLINT CAMPUS PROVIDES

### MEDICAL EDUCATION, PUBLIC HEALTH RESEARCH

The College of Human Medicine has educated medical students at Flint area hospitals since 1969. In 2014, the college received a \$9 million gift from the Charles Stewart Mott Foundation to expand the medical school and its Division of Public Health in downtown Flint.

Consequently, MSU College of Human Medicine has been able to:

- Double the number of third- and fourth-year medical students at the three Flint-area hospitals to a total of 100.
- Center the college's Division of Public Health in downtown Flint, and include coursework leading to a master's degree in public health.
- Launch a new public health research initiative, recruiting six leading public health researchers to study health disparities in three target areas, as defined by the Flint community.

In addition, the College of Human Medicine has expanded to establish campuses in Grand Rapids, Lansing, Midland Regional, Southeast Michigan, Traverse City and the Upper Peninsula.

"The fact that there's been an increase in people coming and having access to healthier food simply because of the move, is a win," Sadler said. "The farmers' market can really be looked at as a catalyst of potentially better things to come."

Hurley Children's Hospital located a new pediatric health center on the market's second story last year. Pediatricians may now write prescriptions for nutritious foods that parents may fill at the market, which is rich in fresh fruits, vegetables, meats and meals. MSU and Hurley also provide classes on nutrition education and cooking with foods that lesson the impact of lead exposure.

Economically, the market has brought in more money for the city since its relocation. In 2011, it was estimated that annual direct sales totaled \$4.9 million. In 2015, total sales hit nearly \$14 million.

Sadler also credits the market's success to offering incentives such as the Double Up Food Bucks program where customers with SNAP, or Supplemental Nutrition Assistance Program, benefits can spend up to \$20 on groceries and get another \$20 to spend on locally grown fruits and vegetables.

"These incentives eliminate some of the barriers residents often face when accessing these better food options," Sadler said. "The least mobile, most financially distressed people are often constrained to just

their immediate surroundings which typically only include fast food, liquor or convenience stores."

Sadler noted that because the city of Flint has lost half of its population, mostly to surrounding suburbs, since the 1960s, the purchasing power of its residents has diminished significantly. This has caused stores to close up or relocate outside of the city. As a result, certain areas have become "food deserts" or places where residents simply don't have access to better quality food.

Using his spatial analysis research, a method that allows scientists to see otherwise invisible patterns of a particular phenomenon on a map, Sadler is working with Flint's local food bank to pinpoint new distribution sites to areas that are underserved. He also continues to work with MSU Extension and the "edible flint" local food collaborative on helping to identify geographic locations where teaching and implementing urban gardening could benefit residents.

"It's not the Walmarts of the world that are going to save Flint's access to food," Sadler said. "It's strengthening the local food landscape and building sustainable food options like the farmers' market that will help feed the city."

Learn more at www.edibleflint.org

### **MSU MOBILIZES** FOR FLINT

Kickball competitions, collection and delivery of bottled water and even trips to retrieve and recycle empty water bottles are just a few of the ways that Michigan State University faculty, staff and students have helped to alleviate the problems in Flint.

Here are some of the other MSU-related projects, programs and activities:

- The MSU Pediatric Public Health Fund was created to support interventions for the children of Flint affected by lead exposure. Tools and resources for health assessment and continued research are necessary for improving children's health and long-term development.
- A recent \$2 million grant from the Charles Stewart Mott Foundation will enable the College of Education to help improve the quality of education for children in Flint.
- MSU is dedicating two full-time staff members to coordinate the university's work in Flint. Joan Lynn Ilardo works in the College of Human Medicine. Deanna East works with the MSU Extension.
- The Empower Flint phone app, developed with WKAR-TV, gives instant access to critical information such as where to pick up free water and water filters, and locations where healthy food is available.
- The MSU Extension published Nutrition & Lead, a guide and recipe book to help limit the effects of lead exposure. Cooking Matters contributed the recipes. Some of them are prepared during cooking demonstrations in a classroom of the Flint Farmers Market, thanks to help from Hurley Medical Center. MSU's Extension has been serving Flint for more than 100 years.
- The MSU Extension has published Flint Fiscal Playbook: An assessment of the Emergency Manager Years. Eric Scorsone, director of MSU Extension Center for Local Government Finance and Policy, is lead author.

go.msu.edu/flint-playbook

- The MSU Extension collaborated with the Michigan Milk Producers Association to donate 12,000 gallons of 2 percent milk to Flint families.
- The MSU School of Social Work has created a website that serves as a clearinghouse for information on engagement opportunities in Flint, community resources and some of the news stories on the crisis.
   go.msu.edu/flint-assistance
- MSU's Institute for Public Policy and Social Research hosted a public forum to address the Flint water issue and discuss ideas for helping in the city's recovery.
- Student-athletes and Spartan Marching Band members distributed water and recycling bags at the Northwest Shopping Center in Flint.
- Patrons of MSU's Wharton Center raised \$30,000 during the February performances of *The Sound of Music*.
- MSU veterinarians tested Flint pets for lead.
- MSU's WKAR radio and TV is airing Faces of Flint, an MSU-produced documentary series available at WKAR.org.

For more: go.msu.edu/msu-and-flint Archived at: alumni.msu.edu/livestream





### FLINT WATER PLANT

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## WEAVING A SAFETY NET FOR STUDENTS WITHOUT ONE

FAME Program Helps Spartans Who Don't Have Stable Families to Fall Back On

By Paula M. Davenport

They don't call attention to themselves. They're not interested in fanfare. They really just want to fit in. To thrive. And to be successful.

They are collegians who have either grown up in foster care, lived with relatives or friends in homes absent a biological parent or experienced homelessness as teenagers. Yet despite all of the uncertainties and obstacles in their lives, they've dedicated themselves to academic and career success.

About 400 Michigan State University students have identified themselves as having experienced these scenarios. MSU provides specialized support for those who wish to take advantage of it through its Fostering Academics Mentoring Excellence program, or FAME.

Overseen by the College of Social Science's School of Social Work, FAME is the umbrella for an assortment of support services. Established in 2007, it boasts, among other assets, a network of passionate MSU volunteer advocates—called Campus Champions—embedded in such critical areas as admissions, financial aid, housing, tutoring, employment and counseling services.

FAME aims to be a bridge for its participants. Many of its students lack the safety net that a stable family can provide.

On average, 60 to 80 students annually avail themselves of FAME's offerings. Participation is voluntary. FAME reaches out to potential participants through an introductory email.

Students can get financial help through MSU's Spartan Advantage fund. Additional aid may come from Pell grants, loans, grants, state-paid stipends and salaries from student jobs.

FAME strives to ensure students' tuition, fees and some books are paid for. Meanwhile, federal, state, university and alumni donations have and continue to support FAME.

The on-campus organization will also pair students with career mentors and life skills coaches if they wish. FAME holds social and leadership events. And a variety of advocacy opportunities exist. They include speaking presentations and internships at the Oregon-based FosterClub, a network for foster youth.

In 2012, FAME hired Andrea Martineau, its first full-time director, to keep things up and running, with the help of assistants and student interns. She is the primary point person for students seeking all sorts of assistance. At any time during the academic year, she may be a cheerleader, friend, coach and problem-solver—sometimes all in a day.

Martineau said many FAME students are drawn to careers in the fields of

social work, public service, public policy, criminal justice and law. And most graduate with very little debt, she said.

Oftentimes, they're the first in their families to attend college.

FAME is one of several statewide programs of its kind. They all collaborate under the umbrella of Fostering Success Michigan, an initiative to help foster youth make successful transitions to fulfilling careers and adulthood.

#### WANT TO HELP?

Volunteers are needed to serve as mentors, provide training or serve as community liaisons to help students gain access to important services while supporting their life skills development. In addition, the FAME program regularly accepts donations of personal care items and school supplies distributed to FAME students as needed. Gifts to support general programming events and needs are always welcome.

http://go.msu.edu/help-fame

On the next six pages, meet three students who are grateful for FAME's support.



## **ANGELICA**

By Angelica Cox, Senior, James Madison College

I will never forget March 9, 2007. I remember vividly how the social worker looked me straight in the eye and uttered the words that would alter my entire childhood. That was the day that I was placed into the foster care system and separated from my parents.

To help escape the trauma in my life, I focused heavily on my academics. In 2013, I graduated from Caro High School with high honors and in the top ten of my class. After graduation, I received a letter from Michigan State University that told me that I qualified for the Spartan Advantage, which meant that a majority of my higher education was going to be paid for. This was a dream come true because I had always dreamed of coming to this university and now I could afford it.

When I transitioned to MSU, I still lacked the emotional, financial, or social support that a majority of my peers had. A few weeks before the start of the fall semester, I was couch surfing rather than living in the comfort of a stable home. I remember moving into my dorm my freshman year—I was alone.

It was hard coming to college all by myself, without a lifeline to parents or a home. The most challenging obstacle was to stay focused on my education because I also had to worry about other life issues—such as having somewhere to stay over college vacations, finding access to health insurance and simply discovering the inner strength to stay motivated.

When I arrived on campus, the FAME program reached out to me. Out of all of the generous contributions this organization made in my life, my most memorable experience was when the FAME program found a way to purchase health insurance for me. The FAME program's kindness allowed me to realize that I did not have to fight this battle alone. This is one of the many contributions the organization has made to help support me.

Instead of letting my past drag me down, I have continued time and time again to take advantage of the opportunities at this university. Last summer, I completed a study abroad in South Africa and I was the Michigan FosterClub All-Star. Currently, I am a part-time staffer for Michigan State Rep. Andy Schor, which is preparing me for an internship this summer on Capitol Hill.

Fewer than 10 percent of U.S. foster youth graduate from college. Thanks to the support of the FAME program and MSU, I will be graduating in December. I hope to one day become a social work professor so I can share my knowledge on the child welfare system with the world.

In Michigan, 13,000 children live in foster homes.







### **JUSTIN**

By Justin Jesse Mcelwee Senior, James Madison College

I grew up in Flint with five brothers and a sister. We now range in age from 11 to 23 years old. My dad came from a very poor family and moved to Flint for work. My mom grew up in a middle-class family and had more education. I have to thank my parents for a lot. We did not live in the best area of town, but I still got a great education and I felt safe. My parents did everything they could for us.

When I was 14, just before the recession hit, all of us kids were abruptly taken from our home. I lived with family members for about a year. But, they weren't able to commit to taking care of me.

I felt frustrated during that time. I entered the foster care system and ended up moving to several different cities and high schools across Michigan. I eventually realized I needed to be productive and consistent. During my senior year, I concentrated on my schoolwork, got involved in politics and played sports to redirect my energy.

My high school college counselor helped me apply to colleges. MSU was at the top of my list. My parents instilled in me the value of getting a quality education. After high school graduation, I got a job at McDonald's for the summer and I attended Saginaw State University for a year. I had a mentor there and worked in the athletics office. About that time, other important adults came into my life, people I could trust and who were helping me because they cared about me.

My mentor had graduated from James Madison College. He was among the adults who encouraged me to visit East Lansing and to apply to MSU. I did. And I was accepted. Oh, man, the workload was intimidating. Plus, a student has to be mature enough to keep everything in check—mentally, socially, physically, emotionally and academically.

MSU's FAME program gave me an awesome start. It helped me with financial aid and housing—and it helped me set goals. FAME also matched me with a mentor here who gives me good advice and teaches me life skills.

I am senior studying International Relations in James Madison College. I want to be a lawyer and/or earn my MBA. So far, I have interned at the State House, the Michigan Federation for Children and Families and the Michigan State Senate.

Two summers ago, I interned at the national headquarters of the Foster Care Club, a non-profit in Oregon that works on child welfare policies and programs for youth across the country.

I believe the foster care system is trying to help youth, but it's largely failing in its mission to serve as a gateway to adulthood for teenagers. I'd like to help turn that around when I graduate in a year. The state of Michigan has done everything possible to help me be successful.

MSU ALUMNI MAGAZINE | 39

In Michigan, 23,000 children annually experience homelessness.





### KIARA

By Kiara Marshall Freshman, Residential College in the Arts and Humanities

Even though I had my mom and two younger brothers by my side, my childhood wasn't the best. I grew up without my father, but that was something that I eventually got used to. I know my mom tried her best as a single parent, which is why I admired her. We didn't always have shelter, food, or clothes. Even though we were eventually moved into foster care, I look back and say that we made the best of what we had.

At the age of 14, I had to accept the fact that my mother wasn't going to get us back in her care. It was hard for me because I had faith in her and was hoping that she would overcome her addiction. As I got older, I understood that you couldn't get rid of an addiction overnight.

I always wanted to go to college because I knew that it was my only way out. I wanted to get out of Detroit so bad and show people that I could make it. I am the only one on my mother's side of the family to graduate from high school. I wanted to break the mold. When I was applying to colleges, I had people around me that helped me get into MSU. I'm truly thankful.

My first semester of college, I was so nervous because I didn't know how I was going to handle it. I had been taking care of myself since I was 16 so being on my own wasn't something that was new to me. I was worried about college life in general: the course load, making friends, joining clubs.

I'm an independent African-American student who came from Detroit, graduated from a Detroit Public School and somehow made it to MSU. Although I have been through a lot in my life, I would never want someone to pity me because there are other students who faced the same obstacles and have overcome them just as I did.

FAME is an excellent program and support system to provide students with resources and someone to talk to. I have met people who truly care about me and are continuing to help me transition into the world where I'm going to be standing as a true adult.

I want to be a social worker in foster care or adoption. After being a foster youth for almost seven years, I want to help other foster youth get what they deserve. I also want to open my own nonprofit organization for foster youth and people who age out of foster care.

In Michigan, 44,000 children live with friends or relatives, absent a biological parent.



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## "IT'S TOO GOOD TO



## BE TRUE"

MSU's Pete Kakela Reflects on Life as an Alumnus, Athlete, **Professor and Parent** 





#### THE **GLORY** YEARS

Kakela will retire this year after a nearly 40-year teaching career in the College of Agriculture and Natural Resources.

Looking back on his time at MSU, he says, "I couldn't have written a better script. The people I've met. The experiences I've had. It's too good to be true."

Kakela grew up in Duluth, Minnesota, and had strong family ties to his home state's school. However, his dad took a job in Toledo, Ohio, where Kakela was a standout on his high school football team. College recruiters came calling—Ohio State, Michigan State, plus Notre Dame, Northwestern, Iowa and Dartmouth—where his brother played.

His campus visit to MSU, hosted by Everett John "Sonny" Grandelius (assistant football coach, a former Spartan great and NFL player) was all it took to sign him. "I loved MSU. The space. The history. The campus had that feel," he recalls.

However, back then freshman didn't play varsity football; and there were no freshman games. "We scrimmaged against each other, day after day. It was brutal," he says.

By the end of spring practice he was elevated to the first-team freshmen squad. Soon he'd be playing in real games.

It was 1959. The Spartans were coming off a winless Big Ten season. Game one brought a loss at the hands of Texas A&M, but Pete got his first few minutes of playing time. The second game was at Michigan. "I remember coming out of the tunnel in Ann Arbor. I looked up, saw that big crowd, and thought: 'this is something I'll never forget."

Michigan took an early lead, so Duffy beckoned eight sophomores. "We scored almost immediately and won the game, 34-8," Kakela says. "I played first-string defensive tackle for the rest of my MSU career."

By his senior year the team was loaded with stars. The defense limited opponents to 10 total points over the first five games. The Spartans beat rivals Michigan, 28-0, and Notre Dame, 17-7.

MSU was No. 1 in the polls before consecutive losses at Minnesota and Purdue marred an otherwise perfect campaign. The Spartans finished 7-2, ranked 8th nationally.

After playing in the College North-South All-Star game, Kakela had pro football offers, but chose to go to graduate school in order to teach and conduct research.

### A CAREER TAKES OFF RETURNING TO MSU

Once he completed his degrees, he took teaching jobs elsewhere. But he jumped at a job opening at Michigan State in 1978. He's been on the MSU faculty ever since. "I came home," he says. "I matured here as a young person. I matured here as an academic."



Pete Kakela passes a life-size image of himself as No.62.



Children's photos fill several walls in the Kakela home.



Kakela studies iron ore. His career took off when Science, a prestigious academic journal, published an article of his. That sparked a long-term relationship with the iron ore industry. He's recognized internationally for his expertise. And he's authored more than 120 professional papers on such topics as energy, mining and other natural resources topics.

In 1976, he received a Rockefeller Fellowship for energy research. From 1981 to 1984, he was awarded a Kellogg National Fellowship for leadership development. In 1998, the Alfred P. Sloan Foundation selected him for a research fellowship, during which he analyzed productivity changes in the North American iron ore industry. In 2002, he received the MSU President's Community Service Award for helping to strengthen Michigan's automobile safety belt law.

#### A LIVING **LEGACY**

Kakela's legacy is not limited to campus accomplishments. His first son, Andrew, died in a 1984 auto accident. The loss affected Pete deeply. It led to an extended period of reflection and soul-searching about life and its meaning.

"Who could have imagined what would come next? I certainly didn't," Kakela says.

Influenced by a friend who'd adopted a child from Russia, he and his wife, Mary Addison—a family law attorney—followed suit. First, the couple adopted Nolan, an 11-month-old from Siberia. Within weeks, the remote orphanage called again, which brought

eight-month-old Aiden into the fold. Next came nineyear-old Pasha. "We had four children at home at that point. The three additions joined our son John," Kakela explains.

And more children were on the way. During a six-week, period the Kakelas adopted Lilly (2 at the time), Jane (18 months) and premature newborn twins Alex and Ben. A year later, baby sister, Elizabeth or "Buffy" joined the clan. The five are siblings. They were formally adopted in December 2004.

By then, there were nine kids at home, making 11 children altogether, counting the late Andrew and his sister, Megan, from Pete's previous marriage.

Presently, seven children are still living at home: a pair of high school juniors, a freshman, an eighthgrader, the seventh-grade twins and a sixth grader.

Life is a team sport at the couple's eight bedroom, five bath home. A mix of school schedules, homework assignments, band lessons, track practice, doctor's visits, daily chores, family dinners and summers at the family's nearby cottage in Jackson overlap to create a quilt woven with parental love and affection.

Every day, the couple counts its blessings. "We've got such a good life," Kakela says.

What wishes does the couple have for its children? "We want them to be healthy and happy. And we want them to recognize that they need to be contributors" to their communities, Addision adds. "The kids have great hearts, great spirits and they're very giving. They've kept us young and they've kept us laughing," Kakela adds with a smile.



A birthday calendar shares space with a humorous saying.



## BIGTENTOUR







#### MORE MSU SPORTSCASTERS

ON THE FIELD, ON THE COURT AND IN THE BOOTH

In the winter issue, we highlighted Spartans who have enjoyed impressive careers in sports broadcasting. We asked you to send us more names of beloved alumni sportscasters, active or retired, that we may have missed. Here are your responses:



#### Jim Adams

1952, Comm. Arts & Sciences

Radio and TV; analyst and play-by-play broadcaster for Michigan State Football on various WKAR TV and Radio shows from his start as a student in 1948 to his retirement in 1993.

#### **Larry Adderley**

1962, Comm. Arts & Sciences

TV; retired sports broadcaster for WXYZ-TV and the Michigan Golf Network.

#### **Carl Banks**

1999, Comm. Arts & Sciences

Radio; analyst for the New York Giants on Sirius NFL Radio and WFAN. Spartan Football player, 1980-1983. NFL player for New York Giants, Washington Redskins and Cleveland Browns.

#### **Eddie Doucette**

1960, Business

Radio and TV; former play-by-play broadcaster for Milwaukee Bucks, Indiana Pacers, Denver Nuggets, Los Angeles Clippers, Portland Trail Blazers. Also broadcasted for MLB, NFL, college football, college basketball, the PGA Golf tour and track and field.

#### **Robert Kurtz**

1970, Comm. Arts & Sciences

TV; play-by-play broadcaster for the Minnesota Wild hockey team. Previous play-by-play announcer for Boston Red Sox, Minnesota Twins, Minnesota North Stars, Minnesota Golden Gophers and Michigan State Spartans.

#### Ray Lane

1952, Comm. Arts & Sciences

Radio and TV; retired sportscaster for Detroit Tigers, Lions, Pistons, Red Wings and Michigan State and University of Michigan athletics. Spartan Baseball player, 1951-1952.

#### **Michael Ludlum**

1985, Comm. Arts & Sciences

TV; sports broadcaster for WLUC-TV6 in the Upper Peninsula, covering Michigan high school sports.

#### **Michael Nolan**

1964, Social Science

Radio and TV; retired sports anchor for Denver based TV and radio stations.

#### Ike Reese

Radio; co-host of The Mike and Ike Show in Philadelphia. Spartan Football player, 1994-1997. NFL player for Philadelphia Eagles and Atlanta Falcons.

#### Jason Strayhorn

1999, Business

Radio; analyst for Michigan State Football on the Spartan Sports Network. Spartan Football player, 1997-1998.



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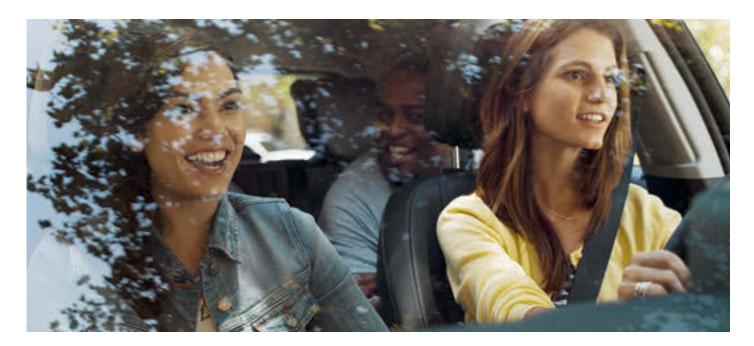
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#### **Spartans from Many Countries**

Nearly 50 international alumni leaders and volunteers gathered for this year's ENGAGE Conference and Alumni Reunion in Goa, India. The MSU Alumni Club of India hosted the weekend event. Participants learned leadership skills and discovered new ways to further engage other alumni.



#### **Arizona Spartans**

MSU alumni participated in the College Football Playoff Urban Forestry Challenge in Phoenix last January. The Spartans planted 10 trees faster than any of the other competing colleges and universities at Marivue Park. The club secured \$1,500 for their next community service project.

#### **Austin Spartans**

The Austin Spartans helped during a coat drive coordinated by the Junior League of Austin's Coats for Kids Program.



#### **Kansas City Spartans**

The Kansas City Spartans hosted a dinner for a group of MSU students in the area for Alternative Spartan Break. The university break program provides future alumni with volunteer opportunities around the country.



#### Washington, D.C., Spartans

The D.C. Spartans participated in the annual Wreaths Across America event at Arlington National Cemetery last winter. Together with thousands of family, friends and others, more than 241,000 wreaths were distributed that day to remember the fallen and honor those who serve in the U.S. Armed Forces.



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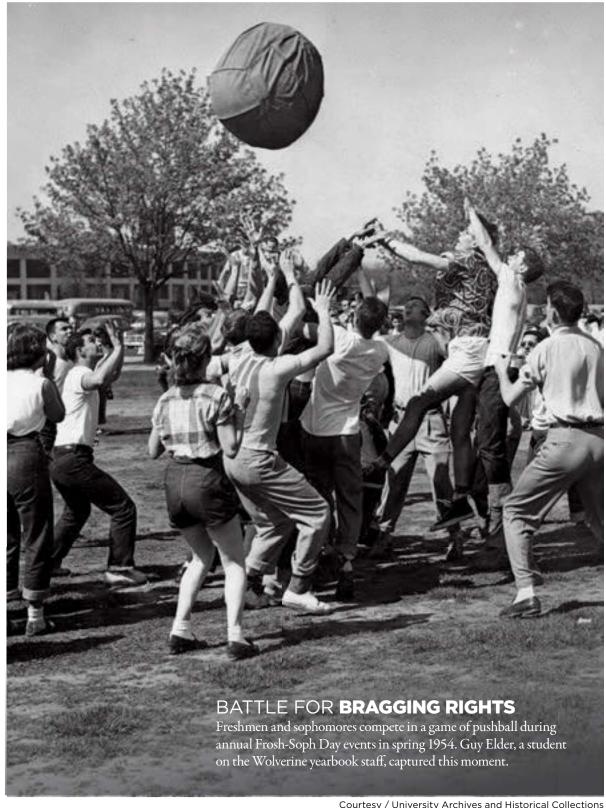
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July 27-August 5

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From: \$3,995 per person, plus airfare Itinerary: Badlands National Park, Custer State Park, Spearfish Canyon, Yellowstone National Park, Grand Teton National Park; optional post-

tour extension to Jackson, WY go.msu.edu/nationalparks16



July 10-15

#### NIAGARA BIKING TOUR

From: \$1,795 per person,

plus airfare

Itinerary: 125 miles over five days including the Welland Canal, along the Niagara River, Fort Erie, Niagara Falls and Niagara-on-the-Lake.

go.msu.edu/niagara16





August 13-21

#### CANADIAN ROCKIES BY TRAIN

From: \$5,199 per person including airfare from Detroit (other gateway cities available) Itinerary: Vancouver, Columbia Glacier, Louise Glacier, Albreda Icefields, Mt. Robson, Peyto Lake, Calgary

go.msu.edu/canadianrockies16



August 19-22

#### MINDFUL LEADERSHIP

**From:** \$2,100 per person, plus airfare

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August 26-September 2

#### DISCOVER SOUTH-EAST ALASKA BY SMALL SHIP

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From: \$2,995 per person, plus airfare Itinerary: Glacier Bay National Park, Sitka National Park, Petersburg; Denali National Park pre-tour extension

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August 27-29

#### **SPARTAN MOVE-IN**

Show your Spartan pride and volunteer to help new students move into MSU's residence halls.

Registration information will be available at **alumni.msu.edu** 



August 27-September 11

#### CRUISE THE FACE OF EUROPE\*\*

From: \$4,795 per person,

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Itinerary: Amsterdam, Cologne, Loblenz, Miltenbery, Wurzburg, Babmerg, Nuremberg, Weltenburg, Passau, Austria, Vienna, Bratislava, Budapest

go.msu.edu/europerivers16

September 1-12

#### **TANZANIA MIGRATION**

with MSU professor Kent Ames

**From:** \$6,835 per person, plus airfare

Itinerary: Serengeti, Ngorongoro Crater, Olduvai Gorge, Tarangire National Park; optional Rwanda Gorilla Trekking extension

go.msu.edu/tanzaniamigration16



September 7-15

#### **ITALY: SORRENTO\*\***

From: \$3,195 per person, plus airfare

**Itinerary:** Campania, Amalfi, Naples, Pompeii, Capri

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September 8-11

#### KAYAKING & HIKING THE LES CHENEAUX ISLANDS

**From:** \$700 per person double occupancy, \$825 per person single occupancy

Itinerary: Aldo Leopold preserve, Historical Museum, Maritime Museum, Great Lakes Boat Building School

go.msu.edu/kayaking16



September 8-16

#### VILLAGE LIFE IN DORDOGNE

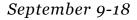
From: \$3,595 per person,

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Itinerary: Sarlat-la-Canéda, Rocamadour, Rouffignac, Cap Blanc, Lascaux II, Eyringnac; optional pre-tour extension to Paris and post-tour extension

to Bordeaux

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#### 1960s

RITCH K. EICH, MA '68
(EDUCATION), has published his latest leadership book, *Truth, Trust* + *Tenacity: How Ordinary People Become Extraordinary Leaders*, the proceeds of which will all be donated to children's hospitals.

BARBARA K. KINCAID, '68 (COMMUNICATION ARTS AND SCIENCES), just published a memoir entitled *Come Live With Me: A Memoir of Family, Alzheimer's, and Hope,* where she discusses how she cared for her ailing mother and looks back to her time as a student at MSU.

JAMES C. VOTRUBA, '68, MA '70 (BOTH IN SOCIAL SCIENCE), was named a Great Living Cincinnatian for his dedication to leadership and service to the Cincinnati area through his time as president of Northern Kentucky University.

#### 1970s

#### WILLIAM C. ALSOVER, '71

(BUSINESS), was recently elected to the Fremont Area Community Foundation Board of Trustees to guide operations, strategic direction and grant allocations.



#### **SUZANNE K. MURRMANN,**

MLIR '77 (SOCIAL SCIENCE), was conferred the title of professor emerita by the Virginia Tech Board of Visitors.

#### 1980s

JEFFREY R. COLE, '85 (COMMUNICATION ARTS AND SCIENCES), has been named Public Resources Director for Lake County, Florida.

JORGE G. GONZALEZ, MA '86, PHD '89 (SOCIAL SCIENCE), has been appointed the 18th president of Kalamazoo College, effective July 1.

COLLEEN C. HALEY, '89, MLIR '90 (BOTH IN SOCIAL SCIENCE), was named the Global Head for Yazaki Corporation's Ford Business Unit as well as Chairman of Yazaki's operations in the Mercosur region.

#### MARK J. HAWKINS, '81

(BUSINESS) was selected for Institutional Investors' All American Executive Team for 2016 as the second best CFO in the software industry.

RONALD L. HENDRICK, '86, PHD '92 (AGRICULTURE AND NATURAL RESOURCES), has been selected as dean of MSU's College of Agriculture and Natural Resources. His appointment begins July 1.

#### MATTHEW J. JOYCE, '81 (NATURAL SCIENCE), has been named vice president and general manager for Strategic and Missile Defense Systems for Lockheed

Martin in Sunnyvale, California.

#### PAMELA D. LEWIS, '86

(ENGINEERING), was named director of the New Economy Initiative for Southeast Michigan.

#### **DENNIS C. MUCHMORE.**

MPA, '82 (SOCIAL SCIENCE), has left his position as Michigan Governor Rick Snyder's Chief of Staff. Muchmore will now lead the Honigman Firm's Government Relations and Regulatory Practice Group.

#### 1990s

#### DOUGLAS J. PETERS, '92

(ENGINEERING), has been named as president of Christman Constructors, Inc., one of the country's leading professional construction services firms.

#### AMANDA M. RORAFF, '99

(JAMES MADISON), was promoted to vice president of marketing and communications of NextEnergy, a Detroit-based nonprofit organization.



#### TRABIAN D. SHORTERS, '91 (COMMUNICATION ARTS AND SCIENCES), was honored as member of the Pahara-Aspen Education Fellows Program, a program that recognizes and supports individuals who work to better public education.

#### 2000s **OLUBUNMI A. AKINYEMIJU,**

'00 (ENGINEERING), founded Venture Garden Nigeria, a holding company for financial entities that provide technology in emerging markets.



LAURA C. CASAI, '06 (AGRICULTURE AND NATURAL RESOURCES) was named to the 2016 class of Oakland County Executive's Elite 40 Under 40 list for her role as director of Interior Design at TMP Architecture, Inc.

#### MICHAEL A. ENNES, '01

(BUSINESS), has been named as vice president of Residential Branding & Operations for Federal Realty Investment Trust (FRIT) at Pallas Property Executive in Washington, DC.

MELISSA A. HUMPHREY, '04 (AGRICULTURE AND NATURAL RESOURCES), won the Phelps-Martin Award for Community Service for her volunteer work with the Family Fun at the Farm program in Michigan's Clinton and Ionia counties.

JOSEPH P. HUPY, PHD '05 (SOCIAL SCIENCE), is the project lead on a research team that has received a \$50,000 grant regarding geospatial mining research at the University of Wisconsin Eau Claire.

ANGELA L. MADDEN. '01 (SOCIAL SCIENCE), has been named the executive director of the Michigan Association of Ambulance Services.

#### KAHLER B. SCHUEMANN.

MA '04 (EDUCATION), has been named secretary to the Western Michigan University Board of Trustees.

MICHAEL H. WEBER. '08 (BUSINESS), was named vice president, Hotel Operations of Weber's Inn in Ann Arbor.

HALLEE J. WINNIE, '06 (SOCIAL SCIENCE), was named executive director for Pi Beta Phi Foundation in Town & Country, Missouri.

#### 2010s

JEFFREY G. GRAD, '10

(BUSINESS), was promoted to manager of Baker Tilley Virchow Krause, LLP after serving as a senior accountant for five years.

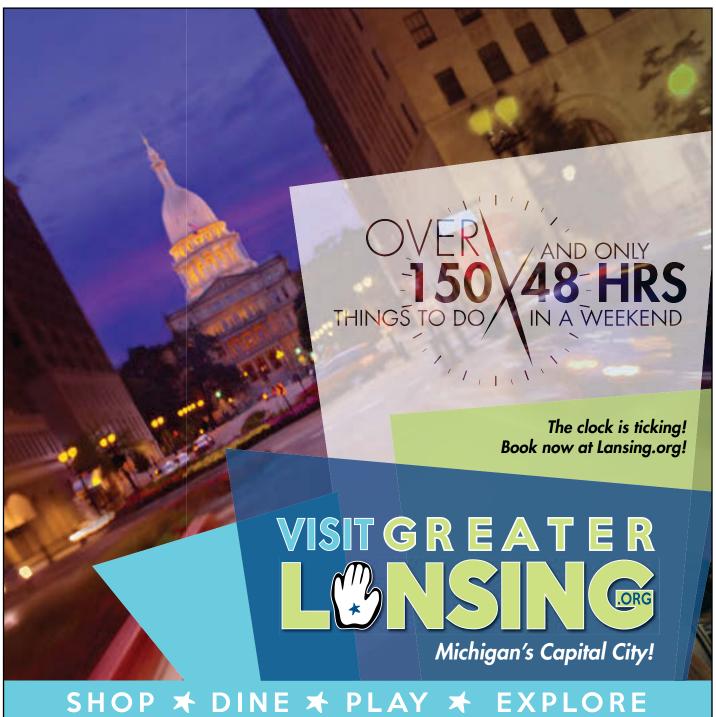
**ANDREW J. SANDERS.** '10 (BUSINESS), was named a senior accountant at Baker Tilley Virchow Krause, LLP.

BRIAN WEBER, '11 (BUSINESS),

was named vice president, Food and Beverage at Weber's Inn in Ann Arbor.

JI HO YOON, PHD '15 (BUSINESS), has joined the faculty of Worcester Polytechnic Institute and will participate as a researcher and educator.





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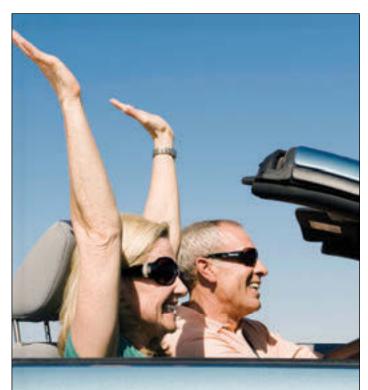
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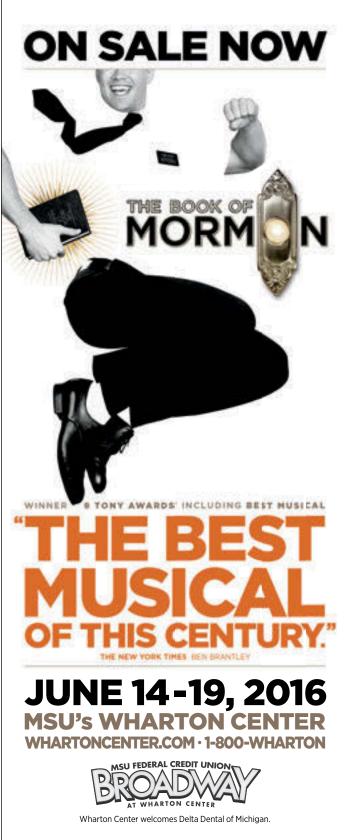
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#### 1930s

**LEONARD G. SCHNEIDER,** '36, of Severna Park, MD, Nov. 28, age 102.

**PETER SOFIAN,** '37, of Troy, Dec. 20, age 101.

**JOHN H. AUSTIN,** '38, of East Lansing, Dec. 22, age 98.

**WILLIAM J. BLYTH,** '38, of East Lansing, Dec. 11, age 98.

CHARLOTTE (THATCHER) NIKITAS, '38, of Kalamazoo.

**MARIAN L. (WINTER) BRAUND,** '39, of Jackson, Sep. 7, age 98.

MILDRED (NELSON) KAIN, '39, of Kinde, Jan. 17, age 100.

**JEAN E. STOLZ-CHAMBERLAIN,** '39, of Washington, DC, Dec. 27, age 98.

#### 1940s

**GEORGE C. COPE,** '40, of Grand Rapids, Jan. 13, age 97.

**CLARE A. GUNN,** '40, of College Station, TX, Nov. 19, age 99.

**ALBERT H. KIENITZ,** '40, of Middleville, Sep. 22, age 98.

**AGNES L. QUIGLEY,** '40, of Ypsilanti, Oct. 22, age 97.

HELEN M. (PRATT) SINCLAIR, '40, of Hartford.

WILMA M. (FRITZ) SMALLWOOD, '40, of Phoenix, AZ, Oct. 25.

**ROBERT KAMRATH,** '41, of Wilmington, DE, Jan. 18, age 97.

**MARY J. (MABIE) MUNROE,** '41, of East Lansing, Jan. 5, age 97.

**ADELBERT J. SPENCER,** '41, of Clayton, Nov. 15, age 98.

**JAMES E. WEBB,** '41, of Federal Way, WA.

MARJORIE L. (MASTERSON) DIETSCH, '42, of Richmond, VA, Nov. 1, age 94.

RUTH L. (LANNEN) FREDERICKSON, '42, of Houston, TX, Aug. 26, age 94.

NAURINE M. (CAHOON) SLOANE, '42, of Portage, Dec. 28, age 94.

**NORMAN S. SOMMERS,** '42, of Southfield, Oct. 20.

**RAYMOND H. WEIDNER,** '42, of Canton, Oct. 23, age 97.

HARRY B. WHITLEY, '42, of Highland Park, Aug. 16.

**RUTH C. (CORNELL) ATHEY,** '43, of Holland, Jan. 14, age 93.

**HELEN I. (SAYERS) CIOLEK,** '43, of Lansing, Jan. 10, age 94.

**GARTH CORRIE,** '43, of Big Rapids, Aug. 3, age 94.

**BARBARA G. (GARDNER) KRAUS,** '43, of Albany, OR, Aug. 3, age 93.

**JEAN M. (CRITCHFIELD) SMITH,** '43, of Brentwood, TN, Oct. 15, age 94.

VIRGINIA M. (GRAVES) THOMASMA, '43, of Ada, Oct. 9, age 94.

**RUTH G. (HAARALA) DEROSA,** '44, of Rochester, NY, Aug. 10, age 95.

MARILYN L. (FOX) DUNN, '44.

**NORMAN T. FREID,** '44, of San Rafael, CA.

**JOHN L. MCLRAVY,** '44, of Columbus, OH, Oct. 29, age 94.

**GRACE S. (SIDOTI) REID,** '44, of Reed City, Aug. 14, age 93.

**CLAUDE W. SIMONS,** '44, of Solvay, NY, Dec. 2, age 93.

**JENNIE M. (HOWARD) WASHINGTON,** '44, of Lansing, Sep. 30, age 93.

**HOPE M. (SCHLUCHTER) BURR,** '45, of Pegram, TN.

ELIZABETH J. (ROTHNEY) CHANNON, '45.

**ELEANOR R. (GIFFORD) DAVIS,** '45, of Morganton, NC, Aug. 9, age 91.

MARIE L. (ESCHBACH) ESCHBACH-BOICE, '45, of Erie, PA, Dec. 20, age 93.

**CAROL M. (WALCOTT) HAYES,** '45, of Naples, FL, Oct. 11, age 94.

BARBARA A. (FEARNSIDE) MALFROID, '45.

**RUTH E. (KISTLER) PERRY,** '45, of Bath, Aug. 9, age 91.

LOIS Q. (QUINN) SEARL, '45, of Lakeland, FL, Sep. 17, age 92.

MARGARET L. TURCOTT, '45, of Petoskey.

**JAMES M. BARBOUR,** '46, of Boise, ID, Aug. 24, age 91.

NANCY K. (KNOWLTON) BYRAM, '46, of Grand Rapids, Oct. 18, age 91.

WESLEY G. CARLOSH, '46, of Norristown, PA, Jan. 20, age 92.

**DONALD F. FITCH,** '46, of Marshall,

**WELDON S. GARRISON,** '46, of Minneapolis, MN, Aug. 15, age 91.

JANET L. (HILL) HAUTALA, '46, of Alma, Jan. 8, age 92.

**ROBERT A. JEWELL,** '46, of Sault Sainte Marie, Dec. 31, age 93.

MARION L. STRICKLAND, '46, of Indianapolis, IN, Dec. 30, age 91.

**WILLIAM H. BEECHER,** '47, of Okemos, Sep. 4, age 93.

**JAMES E. BOMAN,** '47, of Walnut Creek, CA, Sep. 27, age 93.

MARGARET F. (FRIMODIG) BROWN, '47, of Northville.

**ROBERT L. DRAKE,** '47, of Okemos, Aug. 19, age 92.

WILLIAM E. JOHNSON, '47.

**THOMAS C. LOWE,** '47, of Athens, GA, Nov. 4, age 90.

**AUDREY M. (GREEN) LOWTHER,** '47, of Italy, Oct. 13, age 90.

**BETTY L. TOOKER,** '47, of Lansing,

**ROBERT B. VANDERVOORT,** '47, of Swartz Creek, Sep. 19, age 94.

**JOHN T. WOODRUFF,** '47, of Jackson, Oct. 15, age 92.

**AUDREY L. (LOEFFLER) BAKER,** '48, of Erie, PA, Oct. 18.

**HAROLD O. BERNHARDT,** '48, of Iron River, Sep. 11.

ALBERT H. BRUNWASSER, '48, of

PAUL M. DEROSE, '48, of Lansing,

RICHARD B. EDELEN, '48, of Toledo, OH, Dec. 6.

Pittsburgh, PA, Nov. 9, age 92.

**CLARENCE D. FAYLING,** '48, of Pinehurst, NC, Nov. 17, age 93.

FRANK D. HURD, '48, of Valparaiso, IN.

**ROBERT D. MUNN,** '48, of Research Triangle Park, NC, Oct. 5, age 89.

JAMES W. OCHS, '48, of Holland, Dec. 25.

GEORGE R. PAVLICK, '48.

WARREN H. PEARSE, '48, of Washington, DC, Nov. 16, age 88.

WILLIAM R. RANSOM, '48, of Vero Beach, FL.

MICHAEL I. SIAKEL, '48, of Whitehall, Oct. 1, age 93.

**STANLEY E. STEPNITZ,** '48, of Decatur, Aug. 26, age 93.

LOUISE W. (WHITCOMB) STILWILL, '48, of Okemos, Jan. 16, age 89.

KINSEY H. TANNER, '48, of Visalia, CA, Jan. 12, age 89.

RICHARD C. VAUGHN, '48, of Ames, IA, Jan. 31, age 91.

HOPE M. (HANSON) VENEMA,  ${}^{\prime}48.$ 

**DONALD R. VIGES,** '48, of Portland, OR, Nov. 14, age 89.

**DORIS H. BAUER,** '49, of Okemos, Oct. 18, age 89.

BARBARA J. (WEIL) BIELENBERG, '49, of Rhinebeck, NY, Nov. 27.

JACK CARSO, '49, of Burton, Oct. 8, age 91.

**JOHN F. CAWOOD,** '49, of Okemos, Dec. 23, age 92.

PAIGE W. CHRISTIANSEN, '49, of Sylva, NC.

WILLIAM H. COLLMAN, '49, of Tucson, AZ, Aug. 2, age 89.

NANCY M. (MACOMBER) COOK, '49, of Gladbrook, IA, Oct. 20, age 88.

**JAMES L. DALGARN**, '49, of Redmond, WA, Jan. 23, age 91.

**JEAN A. (CHRISTIANSEN) FAY,** '49, of Grand Ledge, Oct. 22.

**LOIS J. (PATTERSON) FOSTER,** '49, of Ithaca, NY, Oct. 15, age 87.

**GEORGE T. GUERRE,** '49, of Lansing, Aug. 13, age 91.

**RUSSELL K. HALLBERG,** '49, of Tryon, NC, Dec. 20, age 90.

**WILMAR F. HAUBENSTRICKER,** '49, of Frankenmuth, Oct. 8, age 95.

CLIFFORD G. HECKSEL, '49, of Santa Monica, CA, Oct. 15, age 89.

**WARREN E. HOOPER,** '49, of Tucson, AZ, Jan. 24, age 91.

BARBARA J. (KESSELER) JOHNSON, '49, of Lansing, Nov. 14, age 88.

CHARLOTTE B. (CARVELL) KIRCH, '49, of Cheboygan.

**DONALD G. LEATHERMAN,** '49, of Arlington, TX, Nov. 2, age 87.

JACQUELINE J. (GELZER) MORRIS, '49, of Hillsdale, Jan. 11, age 87.

**GLENNIS G. (GRIMES) MUNCIE,** '49, of Okemos, Jan. 26, age 90.

VIRGINIA L. NEWMAN, '49, of Lansing, Dec. 19, age 97.

**HELEN (BEALL) NIBLOCK,** '49, of East Lansing, Oct. 16, age 88.

**DORIS J. RAYMOND,** '49, of Lansing, Aug. 31, age 88.

**DALE H. SACIA,** '49, of Allison Park, PA, Aug. 12, age 90.

**CLIFFORD G. STUDAKER,** '49, of Flushing, Sep. 21, age 93.

**BEVERLY (SMITH) SWETT,** '49, of San Diego, CA.

**ALVIN C. THOM,** '49, of Saginaw, Nov.27, age 95.

VIRGINIA R. WEISER, '49, of Santa Barbara, CA, Jan. 3, age 89.

**DONALD L. WELLING,** '49, of Grand Haven, Nov. 17, age 92.

GARADINA A. (CAMERON) WHITTAKER, '49, of Carlsbad, CA, Oct. 4, age 88.

#### 1950s

**WILLARD E. BOSSERMAN,** '50, of Grand Rapids, Oct. 10, age 91.

**OLIVE M. BATCHER,** '50, of Ames, IA, Oct. 26, age 92.

MICHAEL BERRY, '50, of Dearborn, Oct. 24, age 95.

**HERVEY F. BEUTLER,** '50, of Okemos.

PETER H. BLAKE, '50, of Jackson,

CLINTON T. BORDEN, '50, of Wyoming,

JOHN W. BOSCH, '50, of Lawton, Nov. 19, age 87.

CLIFFORD E. BREMILLER, '50, of Tucson, AZ, Oct. 17, age 86.

NORMAN J. BROWN, '50, of Traverse City, Sep. 8, age 90.

ROBERT H. DIBBLE, '50, of Alpine, CA, Oct. 24, age 96.

RICHARD A. EDINGER, '50, of St. Joseph, Aug. 11, age 86.

ARTHUR G. GAROFALO, '50, of Westerly, RI, Sep. 25, age 90.

MARTIN J. KUCHAR, '50, of Lansing, Jan. 22, age 87.

J. R. LAMBERT, '50, of Fort Worth, TX,

LOUIS E. LEGG, '50, of Okemos, Aug. 4, age 87.

GEORGE I. LILJEBLAD, '50, of Flint, Oct. 11, age 91.

**SUZANNE (HOWE) LINDQUIST, '50,** of San Diego, CA, Dec. 9, age 85.

GEORGE MISEYKO, '50, of Asheville, NC, Oct. 3, age 91.

JACK NEAL, '50, of Grand Rapids, Dec.

CARL NESTOR, '50, of Grand Rapids,

BERTRAM H. O'KEEFE, '50, of Orange Beach, AL, Oct. 16, age 92.

DENNIS A. O'LEARY, '50, of San Diego, CA, Nov. 17, age 92.

LLOYD L. OLIVIER, '50, of Grand Rapids,

ARNOLD A. OHST, '50, of Brighton, Sep. 29, age 93.

MARY J. OSBORNE TEAZE, '50, of Saint Petersburg, FL.

RICHARD G. PFISTER, '50, of Lansing, Dec. 29, age 89.

GERALD F. RICHARDS, '50.

LEONARD L. RYNSKI, '50, of Switzerland, Oct. 29, age 89.

DONALD D. SPERRY, '50, of Chicago, IL, Sep. 10, age 90.

EDWARD J. TRUDELL, '50.

LYNFORD E. TUBBS, '50, of Saline, Sep. 19, age 89.

BERNARD J. TUINSTRA, '50, of Grand Rapids, Nov. 1, age 88.

ROBERT A. WINGER, '50, of Sterling, Nov. 15, age 88.

J. DOUGLAS ABER, '51, of United Kingdom

THEODORA E. (NAGORSEN) BAUMGART, '51, of Mt Clemens, Dec. 2,

ARLYNN R. BUDER, '51, of Sacramento, CA, Jan. 11, age 85.

JOSEPH E. CALDARERA, '51, of Wichita, KS, Oct. 4, age 89.

WILLIAM J. DETROIT, '52, of Schofield, WI, Sep. 2, age 89.

DARWIN E. DIEHL, '51, of Troy, Oct. 28, age 86.

RUSSELL D. FRAZIER, '51, of Midland, Sep. 18, age 87.

DANIEL HOVANESIAN, '51, of Okemos, Dec. 18, age 92.

JOAN M. (SCHNUCK)

**LEVANDOSKI,** '51, of Framingham, MA, Jan. 30, age 86.

FLOYD F. MCCALLUM, '51, of Kernersville, NC, Sep. 6, age 95.

FREDERICK R. MICHA, '51, of Ontario, NY, Dec. 25, age 87.

MARY LOU (KENNEDY) MOODY, '51, of Grosse Pointe Farms, Sep. 25, age 86.

PATRICIA A. (KELLY) MOORE, '51, of Ionia, Aug. 18, age 86.

PETER W. O'BRIEN, '51, of Salem, OR,

SIDNEY S. POLLACK, '51, of Pittsburgh, PA, Aug. 12, age 85.

WILLIAM F. RICHARDSON, '51, of Sun City, AZ, Dec. 11, age 86.

FRANK J. SCHOTTERS, '51, of Lansing.

KENNETH E. SPRAY, '51, of Greenville, TX, Sep. 20, age 90.

BARBARA J. (MCCANN) THIAS, '51, of Lansing, Dec. 4, age 85.

REXFORD G. WILLNOW, '51, of Adrian, Jan. 21, age 86.

GEORGE A. BALL, '52, of Galesburg, IL, Aug. 24, age 84.

DOROTHY L. (TAEGE BALLANTINE, '52, of Elsie, Aug. 28, age 87.

JOHN A. BECKETT, '52, of Danbury, CT,

SHIRLEY J. (DAVARN) FOX, '52, of Santa Clara, CA, Sep. 26, age 85.

ROWLAND J. HANSON, '52, of Wixom, Sep. 1, age 85.

PAUL M. HURRELL, '52, of East Lansing, Nov. 14, age 93.

MARJORIE M. (MURPHY) LONG, '52, of Portland, OR.

RHODA J. (MILLER) MAILANDER, '52, of Hoffman Estates, IL, Aug. 12, age 88.

JAMES G. NASH, '52, of Boone, IA, Aug. 14, age 84.

JAMES E. NORTH, '52, of Westland, Oct. 28, age 85

STUART F. PARSELL, '52, of Suttons Bay, Nov. 25, age 87.

**ELAINE D. (BLAKELY) SCHENDEL,** '52, of Trenton, Oct. 24, age 85.

R. JACK SCHULTZ, '52.

JOSEPHINE M. SPANIOLA, '52, of Corunna, Oct. 6, age 85.

DAVID F. SVOBODA, '52, of Grand Rapids, Aug. 29, age 85.

JOHN H. TRUSTDORF, '52, of Lincolnshire, IL, Oct. 6, age 95.

MARY I. (LUFT) VISSER, '52, of Albuquerque, NM, Jan. 12, age 86.

KARL S. VORRES, '52, of Tucson, AZ, Aug. 5, age 88.

LOIS E. (MILHAM) WARD, '52, of White Pigeon, Nov. 26, age 84.

JAMES R. WESTMAN, '52, of Sarasota, FL, Aug. 13, age 85.

ALLAN R. WILHELM, '52, of Grand Blanc, Aug. 31, age 85.

JACK M. ZERULL, '52, of Kendallville, IN, Jan. 9, age 85.

HARRY A. AINSWORTH, '53, of Westwood, MA, Aug. 31, age 84.

DONALD R. BRACKENBURY, '53, of Escanaba, Nov. 20, age 87.

WAYNE W. CLEMENTS, '53, of Saline,

DORCAS E. (BOWMAN) DRURY, '53, of Ironwood, Nov. 13, age 84.

LEE C. HANSON, '53, of Port Huron, Nov. 12, age 84.

ROBERT W. HERMANSON, '53, of Orange, CA, Nov. 23, age 83.

BRUCE R. HIGGINS, '53, of Eaton Rapids, Dec. 30, age 84

VIRGINIA A. (NOLAN) JANNOTTA, '53, of Bethesda, MD, Dec. 12, age 83.

PHYLLIS M. (RAINEY) JOHNSTON, '53, of Marshall, Aug. 18,

DOROTHY E. (BOYER) KIEME, '53, of Williamston, Dec. 21, age 84.

JOSEPH A. KLEIN, '53, of Lansing, Jan. 24, age 86.

DONALD J. KREMER, '53, of Pontiac, Feb. 1, age 85.

JOSEPH V. MCCUTCHAN, '53, of Adrian, Oct. 29, age 84.

JOHN F. MEDLOCK, '53, of Bedford, IN.

H. L. MEYERS, '53, of Beecher, IL.

RICHARD C. MILL, '53, of St. Louis, MO, Aug. 9, age 87.

MARILYN J. (HARLOW) MONTE, '53, of Kokomo, IN, Sep. 25, age 83.

JANICE A. (MOONEY) NICKELSEN, '53, of Buchanan, TN.

DONALD G. PETERSON, '53, of Coopersville, Jan. 19, age 89

**BARBARA E. (HARDMAN)** RICHARDS CLARK, '53, of Vero Beach, FL, Oct. 31, age 84.

PAULINE J. (RUSSELL) SIMOTTI, '53, of Phoenix, AZ, Jan. 7, age 84.

NEIL C. THOMAS,~`53, Jan.~7, age~84.

ROLAND M. FORD, '54, of Naples, FL,

RAYMOND E. GRABLES, '54, of Eaton Rapids, Nov. 29, age 84.

JAMES M. GRANGER, '54, of Madison, MS, Sep. 7, age 82

LEIGH J. HAGA, '54, of Essexville, Sep. 26, age 84.

WAYNE L. LAWRIE, '54, of Lathrup Village, Jan. 10, age 84.

RICHARD V. LUKENS, '54, of Saint Joseph, MO, Nov. 8, age 83.

J. BRUCE MCCRISTAL, '54, of Coronado, CA, Dec. 25, age 83.

MARTHA H. (FUNK) MENNUCCI, '54, of South Bend, IN, Jan. 26, age 83.

FRANK V. SERRESSEQUE, '54, of Bay City, Jan. 2, age 88.

BARBARA F. (ARNOLD) SHIELDS, '54, of Vero Beach, FL, Sep. 27, age 82.

JAMES L. SHRIER, '54, of East Lansing, Nov. 9, age 85.

**JOAN V. (VANDERVOORT) SNIDER,** '54, of Lansing, Nov. 23, age 87.

EDWARD T. SPINK, '54, of Okemos, Jan. 7, age 83.

**ELAINE R. (MACKINNON)**  $\textbf{STICKNEY,} \ `54, of Port Hope, Sep. 23, age 82.$ 

**ELIZABETH L. (BOYER) STOKES,** '54, of Onekama, Nov. 9, age 83.

**DEAN A. STOPPEL,** '54, of Aiken, SC, Aug. 19, age 82.

LOIS A. THOMPSON, '54, of Saginaw, Jan. 6, age 83.

WILLIAM L. TRAVIS, '54, of Frankenmuth, Oct. 9, age 93.

WILLIAM A. WOODERSON, '54, of Tallahassee, FL, Jan. 15, age 87.

JOHN W. ZEITLER, '54, of Buffalo, NY,

BARBARA N. (LACKEY) AMBROSE, '55, of Victor, NY, Oct. 26, age 84.

THEODORE R. ARMSTRONG, '55, of New Canaan, CT, Jan. 5, age 82.

ARTHUR W. BAKER, '55, of Lansing,

MARCIA J. (MILLER) BENNETT, '55, of Lansing, Dec. 18, age 82.

**JANET L. (OWEN) BERTONI,** '55, of Vermilion, OH, Sep. 30, age 82.

**DONALD M. CHOWN,** '55, of Ann Arbor, Sep. 3, age 83.

**GEORGE H. CHRISTENSEN,** '55, of Frankfort, Nov. 22, age 83.

**FREDERICK R. DARLING,** '55, of Henderson, NV, Dec. 17, age 82.

**DAVID R. DILLEY,** '55, of East Lansing, Sep. 15, age 81.

**JOAN E. (LABBITT) DRAGIN,** '55, of Columbus, OH, Dec. 13, age 83.

**DALE S. HOLLISTER,** '55, of Spring Hill, FL, Sep. 24, age 89.

**RICHARD L. JACOBS,** '55, of Perrysburg, OH, Oct. 8, age 84.

**RICHARD W. KRINER,** '55, of South Haven, Nov. 7, age 84.

**JACK R. KUNEY,** '55, of North Attleboro, MA, Aug. 20, age 81.

WILFORD G. LAWRENCE, '55, of Mishawaka, IN, Dec. 17, age 83.

**FRANKLIN MAISANO,** '55, of New York, NY, Aug. 10, age 81.

**ROBERT H. MAYER,** '55, of Grand Rapids, Aug. 24, age 81.

MORLEY R. MURPHY, '55, of Naples, FL, Aug. 5, age 82.

**SALLY A. (MARTINDALE) PERRY,** '55, of Waterford, Aug. 17, age 82.

EMMA L. (LORANCE) REMICK,

"55, of Trenton, ME, Sep. 24.

MARY L. (SCHWEIZER)

SCHILKE, '55, of Wheaten, IL, Sep. 17, age 81.

**WALLACE C. SCHNETZLER,** '55, of Standish, Dec. 4, age 92.

**ALLEN J. SCHUSTER,** '55, of Manistique, Dec. 16.

CHET L. WENTZ, '55, of Peoria, IL, Aug. 9, age 82.

**ALVA E. BEERS,** '56, of Nicholasville, KY, Aug. 11, age 81.

MILO A. BERNARDON, '56, of Jackson, Nov. 24, age 86.

CAROL E. (MUSTY) BEST, '56, of Flat Rock, Dec. 3, age 81.

MILFORD D. BONNER, '56, of Gulf Shores, AL, Sep. 26, age 86.

**JAMES W. BRYDEN,** '56, of St. Clair Shores, Oct. 2, age 86.

**SHELDON W. CHURCH,** '56, of Dearborn, Nov. 10, age 82.

DAVID C. COEY, '56, of Lansing,

WILLIAM G. ELLIOTT, '56, of University Center, Jan. 26, age 81.

**ALFRED W. GATES,** '56, of Rochester, NY, Nov. 24, age 81.

**DIANA F. (SILVIUS) GITS,** '56, of Chicago, IL, Jan. 22, age 81.

RALPH E. GRAPER, '56, of Stamford, CT, Aug. 23, age 80.

**DOUGLAS W. HARPER,** '56, of Lansing, Nov. 3, age 81.

**ARNOLD M. HAUGEN,** '56, of Brooklyn, Sep. 25, age 89.

**STEWART P. HORNING,** '56, of Roswell, GA, Oct. 2, age 86.

**JOHN R. HORTON,** '56, of Naperville, IL, Dec. 11, age 84.

**PERMELIA A. HULSE,** '56, of Vicksburg, Oct. 27, age 81.

MARY L. (GOETZE) LARSEN, '56, of Barrington, IL, Nov. 9, age 81.

**SUZANNE (UPDIKE) LUNDQUIST,** '56, of Aptos, CA, Dec. 27, age 81.

**DONALD E. LUTZ,** '56, of Sacramento, CA, Nov. 3, age 86.

**ROBERT MCLAREN,** '56, of Grand Blanc, Dec. 20, age 85.

**PATRICIA M. (IVEY) NELSON,** '56, of Jackson, Sep. 15, age 81.

**EUNICE M. (JONES) PARENT,** '56, of Reno, NV, Sep. 25, age 81.

**HUSSEIN S. RAGHEB,** '56, of West Lafayette, IN, Jan. 13, age 91.

MARILYN J. (SYLVAN) THOMPSON, '56, of East Lansing, Sep. 3, age 81.

**ROBERT F. WALSH,** '56, of San Luis, AZ, Nov. 17, age 89.

**RICHARD B. WIGHT,** '56, of Zephyrhills, FL, Oct. 18, age 81.

JOHN F. WILL, '56, of Grand Rapids.

**DOUGLAS A. WILLS,** '56, of West Bend, WI, Jan. 27, age 81.

**DAVID R. BELLIS,** '57, of Latrobe, PA, Oct. 23, age 83.

**ROGER L. BENNETT,** '57, of Chicago, IL.

**HARRY R. BRASINGTON,** '57, of Harbor Springs, Jan. 8, age 81.

**DONALD G. BRAUER,** '57, of Wilmington, NC, Sep. 22, age 82.

**MARTIN J. BURKE,** '57, of Huntsville, AL, Aug. 19, age 95.

**JOSEPH C. DAUGHERTY,** '57, of Orlando, FL, Sep. 4, age 86.

RICHARD B. DOANE, '57, of Lake Odessa, Jan. 16, age 80.

ROBERT J. FAWCETT, '57, of Akron, OH, Aug. 26, age 89.

**DALE C. GAGE,** '57, of Huntington Beach, CA, Jan. 14, age 81.

WILLIAM L. GLASS, '57, of Highland Park, IL.

JANE B. (BURGAN) HAGAMAN,

GEORGE O. HAGGARD, '57, of Morristown TN Dec 12 age 83

Morristown, TN, Dec. 12, age 83. **LORAN L. HAMILTON,** '57, of

Traverse City, Aug. 3, age 79.

ROBERT E. HOISINGTON, '57, of

Clawson, Dec. 31, age 80.

**ARTHUR JANESS,** '57, of Newport Beach, CA, Dec. 4, age 91.

**ROBERT G. JEWETT,** '57, of Charlotte, Sep. 9, age 80.

**WALTER A. LUDKA,** '57, of Traverse City, Jan. 17, age 81.

**CECIL L. MARCKEL,** '57, of Sun City West, AZ, Sep. 19, age 84.

**FREDERICK M. MONG,** '57, of Franklin, PA, Jan. 10, age 82.

**ALFRED L. MURRAY,** '57, of Sun Lakes, AZ, Sep. 14, age 82.

**HARRY E. POWELL,** '57, of Scottsdale, AZ, Oct. 21, age 80.

**GARY L. RAYMOND,** '57, of Haslett, Oct. 3, age 80.

**LOIS E. (GREEN) STACK,** '57, of Toledo, OH, Nov. 15, age 87.

**FREDERICK J. TRIPPEL,** '57, of Columbus, OH, Dec. 25, age 86.

PAUL R. ALMS, '58.

**JOANNE BECKER MURPHY,** '58, of Birmingham, Oct. 26, age 79.

**ARNOLD W. BLOMQUIST,** '58, of St. Paul, MN, Aug. 10, age 78.

**EDWARD S. BURCH,** '58, of Big Rapids, Dec. 18.

**JOHN R. HASKETT,** '58, of Sarasota, FL, Oct. 15, age 87.

**IRENE A. (SCHIELE) HATHAWAY,** '58, of East Lansing, Dec. 3, age 79.

**EARL E. HOLCOMB,** '58, of Springfield, Jan. 2, age 83.

**GEORGE A. HOUGH,** '58, of West Tisbury, MA, Sep. 22.

**JOSEPH H. KOCH,** '58, of Yonkers, NY, Sep. 25, age 82.

**RICHARD G. LABUDDE,** '58, of Knoxville, TN, Oct. 23, age 85.

**CLARENCE L. MILLER,** '58, of Tavares, FL, Nov. 7, age 82.

**WILLIAM C. MORRIS,** '58, of Hale, Aug. 13, age 79.

**PAUL M. NELSON,** '58, of Riverside, CA, Aug. 11, age 84.

MARTHA E. (HOLLAND) NOVAK, '58, of Bark River, Jan. 3, age 79.

**LESLIE E. RUTLEDGE,** '58, of El Paso, TX, Aug. 21, age 79.

EDMUND J. THELEN, '58, of Marana, AZ, Aug. 3, age 78.

**RICHARD L. THOMPSON,** '58, of Muskegon, Oct. 12, age 79.

**EMERY R. TOWNSEND,** '58, of Sacramento, CA.

**DONALD W. WAGONER,** '58, of Okemos, Aug. 31, age 79.

**RICHARD L. BAUMGARTNER,** '59, of Reedsport, OR, Aug. 12, age 80.

**HAROLD A. BENNETT,** '59, of Walla Walla, WA, Oct. 10.

WILLIAM G. BISARD, '59, of Williamston, Nov. 11, age 89.

DAVID L. BOLTON, '59, of Grand Rapids, Jan. 20, age 82.

Grand Rapids, Jan. 20, age 82. **ROLFE D. BRADBURY,** '59, of

Lufkin, TX, Sep. 26, age 86.

ROBERT G. CALTRIDER, '59, of

Mt. Pleasant, Dec. 6, age 79.

CHARLES N. CARR, '59, of

Faribault, MN, Jan. 11, age 83.

RACHEL D. (DONNAN) CAVANAUGH, '59, of Akron, OH, Oct. 19, age 78. **JOSEPH H. COPELAND,** '59, of Green Valley, AZ, Nov. 19, age 85.

**LOUIS E. DALEY,** '59, of Stephenville, TX, Jan. 6, age 82.

**LORETTA L. (KOSIBA) FERDI,** '59, of Gary, IN, Jan. 26, age 78.

**RICHARD J. GAUDRAULT,** '59, of Battle Creek, Nov. 4, age 85.

**C. F. HALL,** '59, of College Station, TX, Nov. 11, age 92.

**RONALD M. JACOB,** '59, of Blissfield, Sep. 16, age 78.

**DON C. LOOMIS,** '59, of Eaton Rapids, Oct. 30, age 82.

JOHN H. MCCARTNEY, '59, of

**RICHARD H. NORTHRUP,** '59, of Midland, Nov. 20, age 87.

MARTHA L. RATHS, '59, of Charlotte, Dec. 9, age 78.

KAREN A. (MILLIGAN) ROBINSON, '59, of Plano, TX, Sep. 26, age 78.

**ALEXANDER M. RODGER,** '59, of Kure Beach, NC, Oct. 19, age 88.

**LAVERNE W. ROOT,** '59, of Ludington, Nov. 1, age 80.

**DONALD A. SCHIESSWOHL,** '59, of Saginaw, Dec. 31, age 85.

**GLENN M. SVENDSEN,** '59, of Lansing, Dec. 28, age 80.

**CLIFFORD K. VANSICKLE,** '59, of Midland, Sep. 17, age 83.

**COOPER H. WAYMAN,** '59, of Westminster, CO, Jan. 10, age 88.

**JAMES E. WILKES,** '59, of Naples, FL, Oct. 30, age 77.

**KEITH E. WOOD,** '59, of St Johns, Dec. 1, age 85.

#### 1960s

**DENNIS L. BABCOCK,** '60, of Whitehall, Oct. 2, age 84.

**EDWARD E. BUSH,** '60, of Elizabethtown, KY, Aug. 9, age 81.

**DONALD R. CONNELLY,** '60, of Crofton, MD, Oct. 23, age 85.

**GEORGE W. DEMONTIGNY,** '60, of Vero Beach, FL, Nov. 15, age 83.

PATRICIA J. FUHS, '60.

**JOHN R. HAWKINS,** '60, of Hudson, Aug. 24, age 77.

**JOHN F. KINSLER,** '60, of Grand Island, NY, Oct. 30, age 79.

**DONNA J. (MONROE) MAGUIRE,** '60, of Grand Ledge, Feb. 2, age 77.

**ROGER W. NOYCE,** '60, of DeWitt, Jan. 8, age 78.

**GARY F. NUGENT,** '60, of Sterling Heights, Sep. 1, age 81.

**HENRY R. WISE,** '60, of Traverse City, Aug. 1, age 79.

**ROBERT F. WITT,** '60, of New York, NY, Sep. 20, age 82.

MAN HYONG YOO, '60, of Wynnewood, PA, Aug. 12, age 80. MARY A. GRACEFFO, '61, of Fayetteville, NY, Nov. 1, age 84.

RALPH F. GREEN, '61, of Jackson,

OSCAR C. HAHN, '61, of Midland, Jan. 23, age 78.

MARCIA R. MITCHELL, '61, of Grand Rapids, Jan. 6, age 76.

WILLIAM E. RUTCHOW, '61, of Toledo, OH, Dec. 19, age 77.

ROBERT W. SUMMERS, '61, of Madison, WI, Oct. 14, age 77

PETER A. TENEROWICZ, '61, of Ludlow, MA, Oct. 21, age 84.

ALBERT M. VANPELT, '61, of Monument, CO, Jan. 9, age 79.

DUWAYNE H. WATKINS, '61, of Haslett, Dec. 30, age 79.

BETHANY (TAYLOR) WEBER, '61, of Kalamazoo, Jan. 4, age 82.

DON B. WIEGANDT, '61, of San Francisco, CA, Sep. 24, age 81.

GAY P. (KAYMEN) WOJICK, '61, of Waukegen, IL, Aug. 16, age 78.

ARTURS BEKMANIS, '62, of Lansing, Dec. 23, age 76.

KENNETH A. BENJAMIN, '62, of Miami, FL, Sep. 12, age 78.

JOHN O. BRISBOIS, '62, of Truth Or Consequences, NM, Jan. 12, age 75.

BETTY B. FALCONE, '62, of Lansing, Dec. 5, age 95.

**JACK E. FOX,** '62, of Woodland Hills, CA, Oct. 10, age 87.

HARRY D. GARBER, '62, of Tampa, FL, Nov. 1, age 85.

RICHARD G. GREMEL, '62, of Rockford, Jan. 27, age 80.

EDWARD R. GUBISH, '62, of Erie, PA,

RICHARD E. HANNA, '62, of Lansing,

BROWNIE R. JOHNSON, '62, of Elkhorn, NE.

DONALD D. LARSON, '62, of Longwood, FL, Aug. 22, age 79.

CAROL A. (IMPTON) LEMENSE, '62, of Southfield, Sep. 5, age 74.

JOHN D. LYONS, '62, of Tucson, AZ, Aug. 2, age 78

KENNETH M. MITCHELL, '62, of Shalimar, FL, Nov. 30, age 76.

BERNADETTE M. PALASZEK, '62, of Grand Rapids, Aug. 18.

**GERALD SHILLING**, '62, of Knoxville, TN, Nov. 11, age 75.

HERMAN L. WARREN, '62, of Blacksburg, VA, Nov. 3, age 82.

RICHARD A. BENNETT, '63, of

Portsmouth, NH, Sep. 20, age 74. STEPHEN A. BURGIS, '63, of S

terling Heights, Aug. 29, age 74. WILFORD L. GAFFNER, '63, of Haslett,

Dec. 8, age 76. LEONARD HANDLER, '63. **SAMUEL C. LIND,** '63, of Naples, FL, Nov. 16, age 88.

DONALD L. RANS, '63, of Laguna Niguel, CA, Dec. 28, age 79.

LAWRENCE J. SWICK, '63.

JOHN V. THIRUVATHUKAL, '63, of Upper Montclair, NJ, Sep. 17, age 76.

LEO H. BLACKWELL, '64, of Eau Claire, Jan. 16, age 81.

DAVID L. BREITAG, '64, of Chipley, FL, Aug. 4, age 72.

 $\textbf{MELVIN K. BROWN,} \ '64, of Mesa, AZ,$ 

MARILYN H. (SCHMITT) BURKE, '64, of Gilbert, AZ, Aug. 12, age 73.

GERALD W. CARD, '64, of Traverse City,

HENRY F. EDELHAUSER, '64, of Atlanta, GA, Dec. 2, age 78.

W. JAMES GIDDIS, '64, of Park City, UT, Jan. 21, age 88.

GLENN A. GOERKE, '64, of Seabrook, TX, Nov. 13, age 84.

KAREN E. (BIELINSKI) GRINGHUIS, '64, of Midland, Sep. 8, age 73.

CAROL K. (KRIEGER) HARTMAN, '64, of Apalachin, NY, Nov. 17, age 73.

MARGE (MEEHAN) JOSLIN, '64, of East Lansing, Nov. 25, age 74.

JUDITH K. (KANAN) KELLEHER, '64, of Palm Beach Gardens, FL, Aug. 4, age 72.

CALPURNIA L. (TACKETT)KELLEY, '64, of Norcross, GA, Dec. 3, age 72

STEPHEN L. KRAATZ, '64, of Skaneateles, NY, Jan. 22, age 74

LONDA L. (ROOT) MEIER, '64, of Lansing, Jan. 11, age 73

JACK L. MURPHY, '64, of Galena, OH, Jan. 7, age 73

KENNETH L. PHELPS, '64, of The Villages, FL, Dec. 24, age 77.

DALLAS E. PRIEST, '64, of Sewell, NJ, Dec. 5, age 77.

**ROSEMARY K. (WALTERS)** RATAJCZAK, '64, of Lansing, Nov. 13, age 75.

ROWLAND R. RAYMOND, '64, of Skaneateles, NY, Dec. 5, age 73.

JAMES F. THORPE, '64, of Cortland, NY, Jan. 6, age 75.

LYNN A. ZERBEY, '64, of San Jose, CA, Oct. 8, age 73.

VERNE B. ALEXANDER, '65, of Riverside, IL, Oct. 29, age 83.

VIRGINIA L. (ANDERSON) ANDERSON BECKER, '65, of Sparta,

ARTHUR S. BLOCK, '65, of Palm Springs, CA, Oct. 13, age 71.

MARY A. (RASMUSSEN) BOWHUIS, '65, of Ionia, Jan. 1, age 73

JOHN S. CRAWFORD, '65, of Newark, DE, Oct. 9, age 72.

STEVEN E. DONLEY, '65, of Huntsville, AL, Sep. 5, age 72.

SURJIT S. DULAI, '65, of Haslett, Aug. 16, age 84.

LORRAINE M. (WILSON) GRUDZINSKI, '65, of Bay City, Dec. 7,

ROBERT H. HAILE, '65.

DONALD B. LAWRENCE, '65, of Rochester, Dec. 27, age 72.

RONALD L. SHAVALIER, '65, of Grand Rapids, Nov. 15, age 78.

DONALD VANDRAGT, '65, of Lake Jackson, TX, Aug. 14, age 73.

KENT L. VLAUTIN, '65, of Chicago, IL, Nov. 29, age 75.

LYLE B. WELCH, '65, of Salida, CO, Aug. 19, age 90.

JILL K. (BANISTER) BANISTER, '66, of Traverse City, Oct. 17, age 72.

RONALD W. BEERY, '66, of Hudsonville, Oct. 1, age 80.

CHARLES E. BROWN, '66, of Ionia,

SHARON A. (SHELDON) CAREY, '66, of Lansing, Jan. 30, age 71.

MYRON B. CHARFOOS, '66, of West Bloomfield, Aug. 29.

JOHN F. DYE, '66, of Bridgewater, MA, Nov. 29, age 73.

THOMAS F. EDWARDS, '66, of Rockport, TX, Nov. 5, age 88.

MURIEL M. (PERKINS) ETTER, '66, of Petersburg, Dec. 30, age 92.

JACQUELINE M. HILL, '66, of Grand Rapids, Jan. 4, age 71.

RICHARD A. LORENTZEN, '66, of St. Charles, Sep. 24, age 72.

E. VICTOR LUOMA, '66, of Wickliffe, OH, Aug. 9, age 82.

JOSEPH M. MALIK, '66, of Saint Louis, MO, Aug. 23, age 70.

JOANNE W. MOHRE, '66, of Springport,

PETER D. OSTERBAAN, '66, of

STUART W. ROYLE, '66, of China Spring, TX, Aug. 25, age 70.

THOMAS R. SEYMOUR, '66, of East Lansing, Jan. 26, age 73.

CHARLES M. SMITH, '66, of Lansing, Aug. 20, age 71.

WILLIAM F. STEWART, '66, of Grand Rapids, Aug. 3, age 72.

THOMAS P. SUKENIK, '66, of Okemos,

THOMAS L. VANNAMAN, '66, of Midland, TX, Nov. 26, age 81.

ANTHONY A. VARILONE, '66, of Soda Springs, ID, Dec. 8, age 72.

DIANA S. CAVETT, '67, of Swartz Creek, Jan. 14, age 70.

ARTHUR T. CLAY, '67, of Williamston, Sep. 2, age 74.

GILBERT M. HILL, '67, of Lansing,

MICHAEL E. LEDYARD, '67, of Lansing, Jan. 17, age 71.

JOHN A. LOWER, '67, of Battle Creek, Jan. 7, age 72.

Jan. 7, age 81.

COOPER W. MATTHEWS, '67, of Warren, Aug. 12, age 87.

JOHN RIEKSTINS, '67, of Springfield, IL, Dec. 19, age 70.

ARTHUR L. RUSSELL, '67, of Clarkston, Sep. 29, age 71.

LYNN C. SCOTT, '67, of Rochester, NY, Aug. 18, age 69.

JAMES A. TYLER, '67, of Apple Valley, CA, Jan. 21, age 80.

RHEA V. (VANHEEST) ARNOLD, '68, of Zanesville, OH, Dec. 6, age 88.

WILLIAM M. BEACHLER, '68, of Lansing, Jan. 15, age 70.

KENNETH W. BLESSINGER, '68, of Knoxville, TN, Sep. 9, age 74.

ROBERT E. CUMMER, '68, of North Kansas City, MO, Dec. 2, age 96.

ARMAND E. FALK, '68, of St. Cloud, MN, Dec. 29, age 82.

BERNARD D. FRIEND, '68, of Rapid City, SD, Aug. 4, age 81.

THOMAS J. FUNK, '68, of Columbus, OH, Jan. 17, age 69.

JAMES R. HARTZER, '68, of

Wallingford, CT, Oct. 22, age 77. FRANCIS C. HECKAMAN, '68, of

Okemos, Jan. 18, age 85 MARK W. JACOBSON, '68, of Lapeer,

Nov. 29, age 70. CAROLE K. KARAS, '68, of Oxford, NC.

ROBERT S. KRAUSE, '68, of Manhattan, KS, Dec. 16, age 70.

LINDA A. OESTERLE, '68, of Marshall, Dec. 29, age 70.

CHERYL D. ROE, '68, of Mason, Jan. 1, age 71.

ROBERT F. SALLAN, '68, of Farmington.

ROBERT M. SCREEN, '68, of Hampton, VA, Nov. 18, age 82.

KIMBAL R. SMITH, '68, of Lansing, Oct. 17, age 72.

NELSON W. STEGEMAN, '68, of Holland, Jan. 30, age 86.

DAVID K. WINTER, '68, of South Pasadena, CA, Aug. 15, age 84.

FREDERICK P. WOLFF, '68, of Goodrich, Aug. 19, age 76. NICHOLAS E. YACOBUCCI, '68, of

Rancho Palos Verdes, CA, Jan. 25, age 69. **ROBERT L. ARENDS, '69** 

JANE (DITZENBERGER) COFFMAN SHAWHAN, '69, of Lansing,

MAX D. HALL, '69, of Williamston, Sep. 22, age 84.

RODNEY M. KLEMAN, '69, of Salinas, CA, Aug. 18, age 68.

FREDRIC D. KOEHLER, '69, of Rapid City, SD, Oct. 28, age 68.

ALLAN L. LANGE, '69, of Saint Paul, MN, Jan. 23, age 77.

JUDITH M. MARKS, '69, of Scottville, Sep. 12, age 70.

JOHN W. MILLER, '69, of Gladwin, Dec. 13, age 83.

**GARY R. PETERSON,** '69, of San Francisco, CA, Jan. 14, age 68.

**JOSEPH G. POWERS,** '69, of Richmond, Aug. 25, age 69.

**GLORIA B. ROSS,** '69, of Grand Rapids, Oct. 30, age 68.

**LAWRENCE D. SCHMITZ,** '69, of Denair, CA, Nov. 3, age 80.

**WALTER H. VANMEETEREN,** '69, of Grand Rapids, Aug. 4, age 83.

**ROBERT L. VOIERS,** '69, of Mount Clemens, Jan. 19, age 69.

GROVNER L. WILLER, '69, of Olathe, KS.

**GREGORY P. YOCHERER,** '69, of Wheeling, IL, Dec. 16, age 68.

#### 1970s

**JAMES N. ADDUCI,** '70, of Decatur, Nov. 1, age 68.

**AGNES L. (LAMLEY) ARNER,** '70, of Traverse City, Nov. 5, age 91.

**ANNA (GREER) ASKEW,** '70, of Saginaw, Dec. 25, age 81.

ROSANNE FIFAREK, '70.

**ROBERT M. FILIATRAULT,** '70, of Metamora.

**KENNETH L. GAGALA,** '70, of San Luis Obispo, CA.

WILLIS F. GALER, '70, of Sault Ste. Marie, Nov. 15, age 87.

**HANNAH J. GOBLE,** '70, of Jackson, Aug. 1, age 79.

**GARY H. GOSEN,** '70, of Burt, Jan. 29, age 67.

MERLE W. HEATH, '70, of Plain City, OH, Jan. 6, age 74.

MARK A. HECTOR, '70, of New Market, TN, Jan. 4, age 74.

**THOMAS H. JACOBS,** '70, of Clayton, Aug. 8, age 67.

**VIRGIL L. JANUARY,** '70, of Clifton Park, NY, Sep. 1, age 72.

**PATRICIA L. (RIGGS) LEWIS,** '70, of Wyandotte, Oct. 6, age 67.

**BARBARA J. LOUDON,** '70, of Lansing, Jan. 11, age 73.

**ARTHUR I. MACLEAN,** '70, of Smyrna, TN, Aug. 11, age 67.

**NICHOLAS E. PETROVICH,** '70, of DeWitt, Jan. 22, age 67.

**JESSE L. SAYLOR,** '70, of Haslett, Oct. 22, age 70.

DONNA E. (RIGHETTI) SCHUMACHER, '70, of Grass Lake, Jan. 29, age 67.

JANET K. (KORNMEYER) SPRINGFIELD, '70, of Quincy, MA, Aug. 14, age 69.

HARRY S. TERRILL, '70, of Wake Forest, NC, Dec. 25, age 72.

RICHARD C. YOUNGS, '70, of

Normal, IL, Oct. 14, age 79. EDGAR L. ANDREAS, '71, of

Lebanon, NH, Sep. 30, age 68. **PATRICK J. BLISS,** '71, of Trenton, Sep. 27, age 69.

**DONNA L. COFFEY,** '71, of Southfield, Sep. 14, age 66.

**LAURA K. FISHER,** '71, of Laguna Hills, CA, Aug. 1, age 66.

**RUSSELL W. KENT,** '71, of Wyoming, Jan. 12, age 67.

**JOSEPH M. KUDERKO,** '71, of Linden, Nov. 28, age 66.

**KENNETH K. KUMASAWA,** '71, of Redmond, WA, Dec. 12, age 76.

**ROBERT W. MEACHAM,** '71, of Peoria, AZ, Nov. 13, age 66.

**DAVID J. MULLINS,** '71, of Mesa, AZ, Oct. 12, age 82.

**RONALD J. NIEMESH,** '71, of Frankfort, IN, Dec. 9, age 66.

**STEPHEN D. POOR,** '71, of Silver Spring, MD, Jan. 11, age 65.

**KAREN E. (ULMER) RICHARDS,** '71, of Snohomish, WA, Jan. 23, age 66.

CARLTON P. ROBARDEY, '71.

**DONALD L. SCHWEINGRUBER,** '71, of Bluffton, OH, Sep. 12, age 75.

**WILLIAM D. SKINNER,** '71, of Traverse City, Sep. 20, age 91.

MARSHA L. SMALL, '71, of Lansing, Nov. 3, age 65.

**LINDA A. (KAHLE) TANNER,** '71, of Dimondale, Sep. 10, age 64.

**DONALD C. TAVANO,** '71, of Lansing, Oct. 30, age 79.

**PATRICIA L. (HEAD) TAYLOR,** '71, of Orlando, FL, Aug. 17, age 68.

**BEATRICE A. (SIEDELBERG) VAN ANDEL,** '71, of Leslie, Sep. 11, age 90.

**LARRY D. VANDERMOLEN,** '71, of Muskegon, Dec. 3, age 75.

**CHARLES R. VANHUYSEN,** '71, of Kalamazoo, Aug. 13, age 66.

**BONNIE L. VANT,** '71, of Williamston, Nov. 17, age 66.

KENNETH O. WEIL, '71.

**ANDREW T. WELPER,** '71, of Baton Rouge, LA, Dec. 22, age 67.

BRUCE E. WILSON, '71.

**ERNESTINE (MARKLE) ABBRUZZESE,** '72, of Naples, FL,
Jan. 6, age 83.

NATALIE E. (MOECKEL) ASQUITH, '72, of Stockbridge, Jan. 28, age 91.

**KATHRYN C. (RADKE) COOK,** '72, of Brighton, Oct. 4, age 65.

JOANNE K. FRITZ, '72, of Owosso,

**CHARLES E. HALL,** '72, of Franklin, Aug. 7, age 72.

**SHERRY J. HUDSON,** '72, of Champaign, IL, Oct. 2, age 67.

**J. BRUCE QUICK,** '72, of Simi Valley, CA, Aug. 3, age 67.

**DOROTHY M. RHODA,** '72, of Kingwood, TX, Dec. 22, age 65.

**REBEKAH R. (BIGELOW) SPAULDING,** '72, of Tecumsch, Oct. 30, age 68.

**DENICE E. BALL,** '73, of East Lansing, Aug. 30, age 64.

**ROSEMARY P. CHAFFEE,** '73, of Lansing, Dec. 15, age 83.

**DENISE E. COLE,** '73, of Syracuse, IN, Dec. 12, age 64.

**WILLIAM DAWSON,** '73, of Tucson, AZ, Aug. 22, age 67.

**CHARLES J. JENSEN,** '73, of Jacksonville, FL, Nov. 2, age 64.

KAREN E. KLEFSTAD, '73, of Lansing.

KARL J. MOBLEY, '73, of Fort Collins, CO, Aug. 20, age 64.

NARONG RAKRATANAKHON, '73, of Quincy, MA.

**CLARK R. RAMM,** '73, of Ukiah, CA, Dec. 27, age 68.

**ROBERT D. STERKEN,** '73, of Shippensburg, PA, Aug. 11, age 67.

FLORENCE B. (BYRD) STEVENSON, '73, of Schertz, TX, Jan. 25, age 94.

WILLIAM J. UTLEY, '73, of Yuba City, CA, Sep. 7, age 84.

**JEANETTE ABELES,** '74, of East Lansing.

AHMAD AFRASIABI, '74, of Laguna Hills, CA.

**JOHN H. BRAZIER,** '74, of Williamston, Aug. 4, age 87.

RICHARD C. DAVIDSON, '74, of Mason, Oct. 4, age 63.

**DOUGLAS L. EYE,** '74, of Saline, Oct. 15, age 64.

**DONALD P. GRAYESKI,** '74, of Jackson, Nov. 28, age 69.

RAE J. JOHNSON, '74, of St. Johns, Aug. 19, age 79.

**ROBERT A. MOSS,** '74, of Hempstead,, NY, Aug. 5, age 63.

**AUGUST J. RESOVSKY,** '74, of Fort Gratiot, Aug. 6, age 62.

**ALFRED A. WALKER,** '74, of Williamston, Jan. 11, age 66.

RICHARD E. BARTOS, '75, of Corunna, Oct. 5, age 74.

JOHN P. BUTCHART, '75, of Oakland, CA, Oct. 4, age 62.

**DENNIS H. CADREAU,** '75, of Warren, Aug. 26, age 62.

**JOHN E. CARELLI,** '75, of Lady Lake, FL, Sep. 17, age 79.

RICHARD R. DUHAIME, '75, of Mt Clemens, Jan. 13, age 61.

**ALLEN B. GIFFORD,** '75, of Rome, GA, Aug. 23, age 64.

**SCOTT A. HAWLEY,** '75, of Port Huron, Aug. 1, age 62.

**GREGORY P. KELLEY,** '75, of Lansing, Aug. 27, age 63.

**CHRISTOPHER LINZ,** '75, of Lansing, Jan. 20, age 64.

**DAVID J. LUCAS,** '75, of Marquette, Dec. 16, age 62.

**GLORIA L. PEARSON,** '75, of Tarzana, CA, Nov. 2, age 62.

**JAMES R. SPALDING,** '75, of Lansing, Sep. 5, age 67.

**DARYL L. WILLIAMS,** '75, of Sturgis, Jan. 17, age 62.

FRED C. HAGEN, '76, of Sleepy Hollow, NY, Oct. 10, age 65.

NANCY R. HALLIDAY, '76, of Okemos, Aug. 18, age 62.

**THOMAS C. HONDORP,** '76, of Fort Wayne, IN, Oct. 3, age 69.

MIRIAM SUE JOHN, '76, of Williamston, Nov. 26, age 82.

**NEIL P. KENTNER,** '76, of Lansing, Dec. 26, age 61.

BARBARA D. (GILSTORF) KOERNER, '76, of Beavercreek, OH, Jan. 26, age 63.

WILLIAM B. LEVY, '76, of Grand Rapids, Oct. 5, age 61.

**JOYCE A. MESSENGER,** '76, of Okemos, Sep. 14, age 84.

MICHAEL H. SLOANE, '76, of Park Forest, IL, Nov. 9, age 60.

LULA M. TRAVIER, '76, of Lansing, Oct. 21, age 74.

WILLIAM B. ABEL, '77, of Winter Park, FL, Aug. 11, age 79.

JOHN K. BIENER, '77, of Grand Rapids, Nov. 4, age 60.

MARY (BURGESS) BURKS, '77, of Haslett, Dec. 19, age 86.

**JAMES W. GARD,** '77, of Newport, KY, Jan. 3, age 70.

BARBARA A. (SHUK) LECLAIR, '77, of Warren, Oct. 24, age 60.

**MARILYN K. LENNIS,** '77, of Farmington Hills, Jan. 3, age 62.

**JAMES H. LOCK,** '77, of Lansing, Dec. 25, age 66.

**STEVEN R. MATTSON,** '77, of Northport, Oct. 28, age 62.

GUY A. PRUDDEN, '77, of Vicksburg.

MARK T. PUFF, '77, of Newaygo, Aug. 20, age 64.

RONALD J. RYEL, '77, of Logan, UT, Oct. 20, age 60.

ADITYA K. SINGH, '77, of East Lansing, Dec. 11, age 69.

**JEFFREY N. DAVIES,** '78, of Farmington, Nov. 9, age 60.

**BONNIE B. FIGHTER,** '78, of Lansing, Dec. 8, age 71.

**BRADLEY D. GRAHAM,** '78, of Williamston, Dec. 18, age 59.

MARJORI E. (MONTNEY) JOHNSON, '78, of Gypsum, CO, Nov. 7, age 61.

MICHAEL M. MILOSCH, '78, of Saratoga Springs, NY, Sep. 17, age 59.

ELIZABETH J. MOON, '78, of

Notre Dame, IN. **BOBBIE R. OAKS,** '78, of Niles,

Nov. 5, age 84. **JAMES R. OLSON,** '78, of Crown Point, IN, Oct. 13, age 71.

**SALLY S. RAPLEY,** '78, of Albion, Jan. 11, age 73.

GORDON D. WOOD, '78, of Troy, Dec. 8, age 66.

ROBIN R. BELLINDER, '79, of Ithaca, NY, Nov. 13, age 70.

PATRICIA M. BLAKESLEE, '79, of Lansing, Oct. 30, age 59.

NEAL C. DAVIS, '79, of Oak Park, IL, Feb. 2, age 60.

MARGARET A. (SCHAEFER) FLEGEL, 79, of Lansing, Sep. 29, age 70.

DENNIS E. HOWE, '79, of Grosse Pointe Woods, Oct. 19, age 60.

PHILIP H. RICHARD, '79, of East Lansing, Nov. 28, age 62.

ALBERT S. SANTONI, '79, of Troy, Dec. 17, age 83.

KAREN J. STEFANICK, '79, of Grand Rapids, Dec. 20, age 63.

JAMES A. TEUNAS, '79, of Bedford, NH, Sep. 19, age 64.

MARGARET M. WEBER, '79, of Ann Arbor, Nov. 25, age 89.

#### 1980s

JOHN T. ADAMO, '80, of St. Clair Shores, Dec. 2, age 57.

DEMARIS A. CHILDS, '80, of Mount Hope, WV, Dec. 10, age 81.

MILTON J. HOVORKA, '80, of Lady Lake, FL, Aug. 6, age 80.

PETER M. ROSS, '80, of Northville, Jan. 22, age 78.

KURT W. ANDERSON, '81, of Pigeon,

Dec. 18, age 56. BRUCE A. BURKE, '81, of Jackson, MS,

Aug. 28, age 59. CAROL S. CHRISTNER, '81,

of Berrien Springs, Jan. 2, age 69.

MARTHA K. (MAUPIN) CREASON, '81, of Victorville, CA, Oct. 24, age 57.

LAURIE J. (DAY) DAY-EGELAND, '81, of Northville, Nov. 7, age 56.

JAN HACKER, '81, of Saint Paul, MN, Aug. 26, age 57.

ARLENE M. HAYWARD, '81, of Sparta, Dec. 30, age 75.

MATTHEW M. MAGEE, '81, of Muskegon, Dec. 3, age 57.

JANE REESER, '81, of South Haven, Dec. 17, age 65.

MARGARET M. (SADIL) MILLER, '81, of San Juan Capistrano, CA.

PAUL J. SMOLAK, '81, of Sterling Hgts, Oct. 9, age 57.

BRIAN D. ULICKI, '81, of Saginaw, Sep. 30, age 57.

DEBRA J. ALLEN, '82, of Wixom,

Jan. 9, age 58. JOHN A. MALARK, '82, of

Yonges Island, SC, Sep. 6, age 56.

EDWIN D. MCGRAW, '82, of Venice, FL, Nov. 1, age 88.

MARY J. POISSON, '82, of East Lansing, Dec. 13, age 57.

BRIAN O'SULLIVAN, '82, of Vinton, VA, Aug. 27, age 56.

DENISE J. CLARKE, '83, of Leslie, Dec. 6, age 68.

JANET A. HEDIN, '83, of Ferndale, Nov. 16, age 58.

SUSAN PEOPLES, '83, of Covert, Jan. 13, age 61.

DAVID L. STEVENS, '83, of Sunnyvale, TX, Oct. 12, age 53

PAUL H. VANKLEEK, '83, of Mason,

DIANE M. BRUETSCH, '84, of Haslett, Nov. 22, age 62.

MITCHELL A. JACQUE, '84, of Mt. Pleasant, Aug. 19, age 86.

PHILIP J. LAZENBY, '84, of Westland, Aug. 31, age 54.

ELIZABETH A. MADAR, '84, of Farmington, Jan. 6, age 53.

JERRY V. MALLORY, '84, of Henderson Harbor, NY, Jan. 17, age 71.

KEITH A. WHITTAKER, '84, of Onalaska, WI, Nov. 4, age 54.

MARGARET P. SEYMOUR, '85, of Lansing, Nov. 1, age 67.

CARMELITA E. FIELDS, '86, of Savannah, GA, Sep. 8, age 57.

BARBARA J. KERN, '86, of Midland, Aug. 17, age 80.

CAROL J. TOPP, '86, of Lawrence,, KS, Oct. 25, age 76.

RANDY BUDD, '87, of Okemos, Oct. 21, age 53.

RUTH L. MONTGOMERY, '87, of Saginaw,, Jan. 9, age 51.

ROBERT E. WHALEY, '87, of Lansing, Oct. 14, age 52.

CLINT D. BARRETT, '88, of Jonesville, Aug. 1, age 49.

ROBERT B. CHAFFEE, '88.

WILLARD R. YOUNG, '88, of Bay City, Oct. 3, age 72.

JENNIFER (SPINDLER) GOULOOZE, '89, of Owosso, Nov. 6, age 51.

#### 1990s

TODD A. ENDRESEN, '90, of Traverse City, Dec. 13, age 48.

LINDA E. GESTERLING, '90, of Long Beach, CA, Nov. 23, age 64.

CHRISTOPHER S. CARRIGAN, '92, of Muskegon, Jan. 18, age 47.

JASON T. KOSTRZEWA, '93, of Beaverton, OR, Aug. 30, age 45.

ANNE M. (HOLDEN) SCHNEEBERGER, '93, of Chandler, AZ,

DAVID C. SOLBERG, '93, of East Lansing, Aug. 18, age 57.

ALEX W. USCHUK, '93, of Eaton Rapids, Nov. 6, age 45.

SEAN P. KELLY, '94, of Milford, Dec. 13, age 58.

DEREK J. SARAFA, '94, of Farmington, Nov. 1, age 43.

FRANCE K. BOWERS, '95, of Southfield, Nov. 9, age 49.

DIANA L. FLOURRY, '95, of Lansing, Sep. 26, age 64.

MICHAEL A. HUMPHREY, '95, of Ann Arbor, Dec. 3, age 44.

RITA A. LANGWORTHY, '95, of Flint,

WILLIAM H. NARRO, '95, of Franklin,

ERIC M. WENCEL, '95, of East Lansing, Nov. 19, age 42.

**ERIC A. KERN,** '96, of Red Lodge, MT.

JODY J. (PARISH) KILDEA, '97, of Haslett, Aug. 11, age 45.

JOLYNN M. (CANFIELD) NELSON, '97, of Lansing, Oct. 27, age 52.

THERESA L. OEGEMA, '98, of Holt, Oct. 12, age 40.

#### 2000s

AMY L. CALDER. '00, of Traverse City, Oct. 8, age 37.

GRANT L. CHILDS, '00, of Fort Myers, FL, Aug. 7, age 38.

JEREMY R. SMITH, '00, of Troy,

Dec. 22, age 37. MICHAEL J. O'ROURKE, '04, of

Grand Rapids, Aug. 28, age 34. TROY A. WIEGAND,  $^{\circ}05$ , of Nashville, TN, Aug. 22, age 33.

#### **2010s**

INGA M. OPP, '13, of East Lansing, Oct. 24, age 47.

LUCY M. GRADOLPH, '14.

SPENCER A. WESTHUIS, '14, of Holland, Oct. 24, age 25.

#### **Faculty and Staff**

MAURICE W. ADAMS, of East Lansing, Sep. 7, age 97.

WILLIAM A. ADAMS, of East Lansing, Aug. 30, age 75

 $\textbf{ELIZABETH R. AGAR,} \ of \ Palatine, IL,$ Oct. 19, age 84.

BARBARA L. ALLYN, of East Lansing, Jan. 1, age 79.

ORLANDO B.ANDERSLAND, of East Lansing, Sep. 27, age 86.

WENDELL C. BANNISTER, of Floral City, FL, Sep. 15, age 86.

JOHN H. BEAMAN, of Gainesville, FL.

SUZANNE BICKERT, of Okemos, Sep. 27, age 76.

**BONNIE L. (MCLANUS) BUCQUEROUX,** of Mason, Oct. 13, age 71.

JERRY A. CEDARSTAFF, of

JUDITH A. COPEMAN, Feb. 8.

Grand Ledge, Sep. 15, age 65

CHARLES E. CUTTS, of Okemos, Sep. 12, age 101.

ANITA M. DELASHMUTT, of Lansing, Sep. 26, age 86.

ARLETTA DIBBLE, of Laingsburg, Sep. 3, age 79.

LARRY FITZPATRICK, of Roseville, Dec. 20, age 78.

WILLIAM H. FORM, of Columbus, OH,

DONALD L. FREED, of East Lansing, Jan. 21, age 81.

JUANITA GONZALEZ, of Lansing,

STELLA J. KAUFFMAN, of East Lansing, Sep. 12, age 85.

ARTHUR KIESELBACH, of Mason, Oct. 3, age 66.

EUNICE P. KLEWICKI, of Lansing, Nov. 20, age 80.

HENRY J. KRYSTAL, of Southfield, Oct. 8, age 90.

IRVIN J. LEHMANN, of Palm Desert, CA, Aug. 12, age 87.

KENNETH J. MAHONEY, of Rochester Hills, Aug. 7, age 89.

DOROTHY H. (VARNUM) MANDERSCHEID, of East Lansing.

RUTH E. MONROE, of New Era, Aug. 30.

FAUZI M. NAJJAR, of East Lansing, Oct. 26, age 94.

YURIKO N. NAKAMURA, of East Lansing, Dec. 22, age 94.

DAVID NOVICKI, of East Lansing, Aug. 18, age 69.

GOLDIE M. PANETTA, of Holt, Oct. 2, age 88.

VLADIMIR SHLAPENTOKH, of Winterville, NC, Oct. 5, age 88.

INDRANAND SINHA, of Eaton Rapids, Aug. 17, age 84.

CAROLYN STIEBER, of East Lansing, Sep. 12, age 92.

KENNETH TAYLOR, of Williamston, Oct. 13.

DONNA B. (SCHMALTZ) TROUB, of Mason, Nov. 11, age 90.

ELLEN D. TYSON, of Lansing, Sep. 25,

JANET A. WESSEL, of Shelby, Jan. 29, age 96.

G. LOUISE WILLIAMS, of Murfreesboro, TN, Dec. 14.

GLENNA WITHEE, of Lansing, Oct. 17, age 90.

#### CORRECTIONS

Edward A. Wynant, '51, had lived in Basking Ridge, New Jersey, not in New York. The information in the last magazine was incorrect.

The Lasting Impressions in the last issue, contained an error. The lyrics from MSU's Alma Mater, "Shadows," should have read: ... "and thy praises MSU."

We regret these errors.



#### **Sparrow Spartan Spotlight**





#### Sparrow Caregivers test meditation as part of new research study

Caregivers in Sparrow's Hospice and Palliative Care are participating in a study combining the convenience of modern smartphone apps with the age-old practice of meditation.

In an innovative six-week study through the Center for Innovation and Research, a collaboration between Sparrow and Michigan State University, Caregivers are testing a series of apps designed by an MSU Department of Media and Information professor that offer daily guided meditation sessions.

Sparrow officials hope the project will help Caregivers learn how to easily incorporate the stress-fighting benefits of meditation into their daily lives.

"Professional Caregivers in Hospice and Palliative Care face incredible challenges every day when they face Patients who are dying

or facing constant pain," said MSU Professor Carrie Heeter, Ph.D. "They are at a huge risk of fatigue and burn-out. There has been some research showing meditation can help. The challenge is how to deliver that in an accessible way."

The meditation project is one of several collaborative research programs between Sparrow and MSU through the Center for Innovation and Research, a partnership that seeks to study ways to improve delivery of care. Founded in 2012, the Center represents a milestone



Carrie Heeter, Ph.D.

in the alliance between the university and the health system to significantly improve mid-Michigan's health care through academic, research, and clinical programs.

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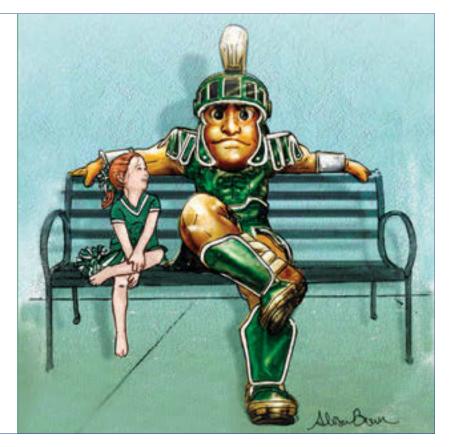
Sparty has long called the MSU Union home. And what better way to celebrate this unifying symbol of Spartan will than a monument established in the Union? This statue will quickly become an iconic destination for students and campus guests, and your generosity will help memorialize Sparty for years to come!

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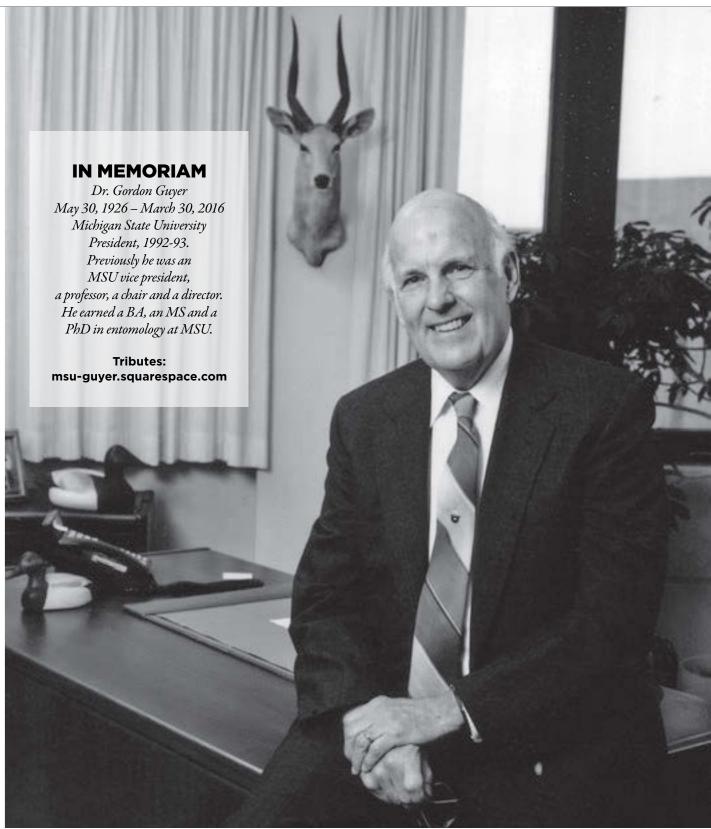
Please contact Tami Kuhn, MSU Union director, at tkuhn@msu.edu with questions.











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