



MSU ALUMNI

MSU ALUMNI MAGAZINE • SPRING 2012
FOR ALUMNI AND FRIENDS OF MICHIGAN STATE UNIVERSITY

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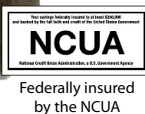
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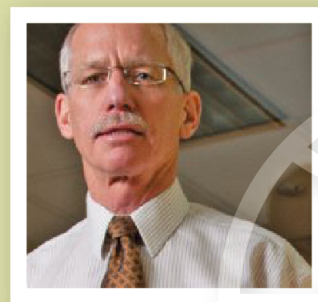
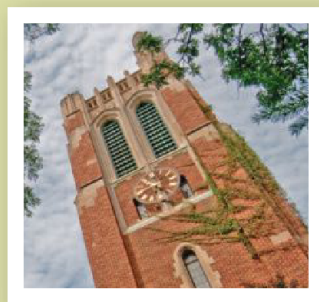
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GETTING WET: MSU IS IMMERSSED IN THE GROWING FIELD OF WATER RESEARCH

In recent years MSU has dived into a number of research projects that involve one of the most precious commodities of our time—water.

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BRICK AND MORTAR GIFTS: A CORNERSTONE OF OUR PAST AND FUTURE

A number MSU buildings, probably more than might be commonly believed, were made possible by private gifts from alumni and friends.

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PRIMA CIVITAS FOUNDATION: A VISIONARY PLAN FOR ECONOMIC DEVELOPMENT

MSU's vision created one of the nation's most unique economic development solutions—an organization with the cryptic name of "Prima Civitas Foundation."

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PRESIDENT'S MESSAGE



Water, water everywhere, but ...

It's easy to take water for granted from where we sit, here in the middle the world's greatest concentration of fresh surface water.

Yet we see headlines daily about drought and its effects on regions around the world, including parts of the United States. Most important, underground sources of water are already under stress around the world. Globally, more than 1 billion people today lack access to clean water and thousands perish daily for lack of it or from waterborne disease.

Yes, Michigan's relatively secure water resources should be a source of comfort to us, but that can't give way to complacency. These lakes and rivers are ours to protect and preserve. Water will be Michigan's greatest natural legacy, and we can't afford

not to get it right. And as it always has, water affords us a grand opportunity not just for quality of life, but for prosperity in a global knowledge economy.

Last summer I accompanied MSU Institute of Water Sciences Director Joan Rose and an MSU delegation to Singapore, an island nation where water security is taken very seriously. Singapore's observance of International Water Week, featuring symposia and other activities, is one of just two or three events of its caliber, and last year it attracted approximately 13,500 participants from 99 countries.

There, I signed memoranda of understanding for research and educational partnerships with two local universities and with Singapore's Public Utilities Board. Alliances such as these will be helpful as MSU grows its \$85 million portfolio in water science, technology and policy toward what we view as the critical intersections of water with health, climate and food security.

In so doing, we aim to help lead development of Michigan's own "blue-green economy," once again taking the best of Michigan to the world and bringing the best of the world to Michigan.

Michigan State has much to offer in the area of water knowledge, including research into microbial fuel cells, water microbiology and advanced membrane technology. You will read about some of our efforts in the following pages. Closer to home, of course, we're active on many fronts in the effort to protect and enhance Michigan's own waterways and Great Lakes, from climate studies to combatting invasive species.

It's said that water will become a resource as valuable to the world in the new century as oil was in the last. The most enduring value will be gained not by pumping it, but from technologies focused on reclamation, purification and conservation. As our 7 billion global population rises to 9 billion in the next generation or two, people will increasingly live in urban areas and sources of both food and water will need to be as close to those consumers as possible. New technologies for wastewater treatment and green infrastructure will be needed and opportunities will arise to partner with metropolitan areas on many aspects of water resource management.

Many of the world's critical water sources, including some of the Great Lakes themselves, are shared between nations, so leaders will need counsel, too, on the policy and legal issues affecting the resources on which they depend.

Corporations and nations are preparing for an era when one of the earth's most abundant resources becomes precious indeed. Singapore, positioning itself as a hub of water knowledge, is host to many technology companies and is securing its water supply through a variety of innovative means.

Michigan, too, has great opportunity not only to preserve its water resources through the application of science, technology and policy, but to become a vital knowledge center for a resource no one can live without.

Sincerely,

Lou Anna K. Simon, Ph.D.
President, Michigan State University

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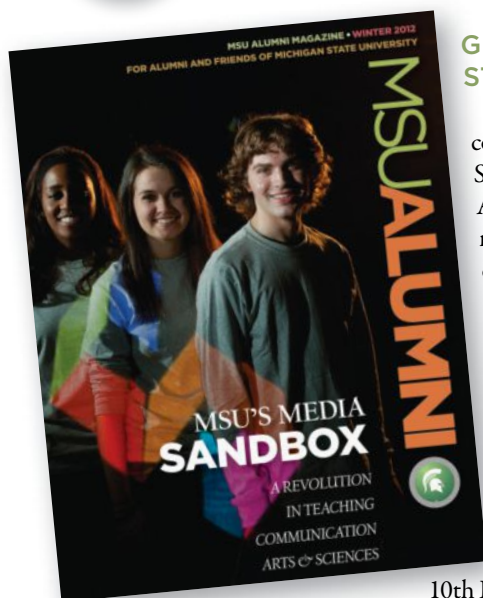
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IN BASKET



GREAT STORYTELLING

Thrilled to read your cover story, “MSU’s Media Sandbox” (Winter 2012). Although the communication landscape has changed, you still need to know how to properly engage an audience in a creative way. That’s a skill I learned from the College of Communication Arts and Sciences. As a student, I became an Impact DJ, program directed the

10th East Lansing Film Festival

and landed a music internship with Late Show with David Letterman. Imagine what opportunities today’s students will have with the Media Sandbox!

The value of my MSU degree continues to rise as new creative minds graduate and continue the tradition of great storytelling, Spartan style.

Kristen Case, ’07
New York, NY

BEST IN HISTORY

When I saw “The Robins of MSU” my first thought was, “I could have done that.” After all, I knew George Wallace when I was a science writer at MSU. But Gary Morgan took a different and much better, more comprehensive tack. I think it’s probably the best science story ever in your magazine.

Charlie Downs
East Lansing

CORAL GABLES

Loved your story on the Coral Gables, where I had my first date with Monty (Marsha Montgomery, ’64), my wife of 48 years. I remember the Excalibur luncheons and wearing the blue blazer. Monty and I were on the staff of Case Hall, the first coed residence hall in the U.S. Memories were indeed made of this.

Tom Plough, ’63, MS ’65, PhD ’71
President Emeritus,
Assumption College
Traverse City

I doubt I ever had three dates with a fellow without being taken to the Coral Gables. Times were austere in the early 1940s and very few students had cars, so we usually rode the bus (from Campbell Hall). This past December, two younger friends took me to the Gables for Sunday brunch—my first return in 67 years. I was delighted. What a joy to see the beautiful dance floor, even if it wasn’t the original. I told my hosts, “Your dad used to bring me here to dance!”

Barbara Rickerd Thompson, ’44
Grosse Pointe Park

The Coral Gables helped launch many careers in hospitality, including mine. In my junior year, owner Alex Vanis and Tony Conti hired me as a bartender in the Show Bar. I had no experience but they figured I could open quarts of beer. It was an opportunity to learn a vital part of hospitality. After MSU, I became the

food and beverage manager at the Coral Gables Chippewa Hotel in Manistee. Six months later I was promoted to general manager and was well on my way.

Dr. Ronald Cichy, ’72,
MBA ’77, PhD ’81
Director and Professor,
The School of Hospitality
Business at MSU

Well done on the Coral Gables story. The photo of the Excalibur meeting (p. 42, Winter 2012) shows my late roommate Phil Frank, ’65, the beloved State News cartoonist, in the foreground. It was the 1965 yearbook (not 1961).

David Wagner, ’65
Placitas, NM

Memories were certainly made at the Coral Gables for me and three other members of the band, The Statesmen. In 1963-64, we played every Wednesday and Friday. Our hit song “Roo-Buh-Doo-Buh Doo” was used in a Hotwire.com commercial 40 years later!

Jay Lerner, ’66
Omaha, NE

IN A VELVET FOG?

My late husband, Bruce Snider, was a Gables regular in the 1950s and once met singer Mel Torme there. Mel asked Bruce and a buddy if they could “fix him up” with a girl after the show. The guys were more than happy to oblige. Years later, Bruce and I met Mel after he performed at the Wharton Center. When reminded of this story, Mel asked for her name—he wondered if she had become one of his many wives!

Gaynel Snider
Holt

ANCIENT HISTORY

Re MSU’s plan to assign street addresses to all campus buildings. In 1948, the National Service Fraternity, Alpha Phi Omega,

convinced MSU that the streets needed consistent names. We suggested a list of names and most were adopted. Too bad they didn’t add numbers to the buildings at that time. Just a little ancient history.

James R. Carr, ’50
Grand Rapids

BUBBA & THE 1960s

Thanks for your very nice tribute to Bubba Smith (Fall 2011). The 1960s was a great time to be at MSU. One reason I chose to go there was their winning football team. I got to know some of the more colorful players on the team (though not Bubba). Two MSU gal pals and I still reminisce about the football parties (which were pretty tame back then).

Margie Bauman, ’64
Knik, AK

At the 1966 homecoming pep rally, Duffy Daugherty talked about a sports article that implied Bubba Smith was overrated since he had only made three tackles all year. Duffy pointed out that the opposing teams had only run around Bubba’s end three times all year. Bubba and his teammates were a very exciting and colorful team.

William N. Jones, ’69
Miami Shores, FL

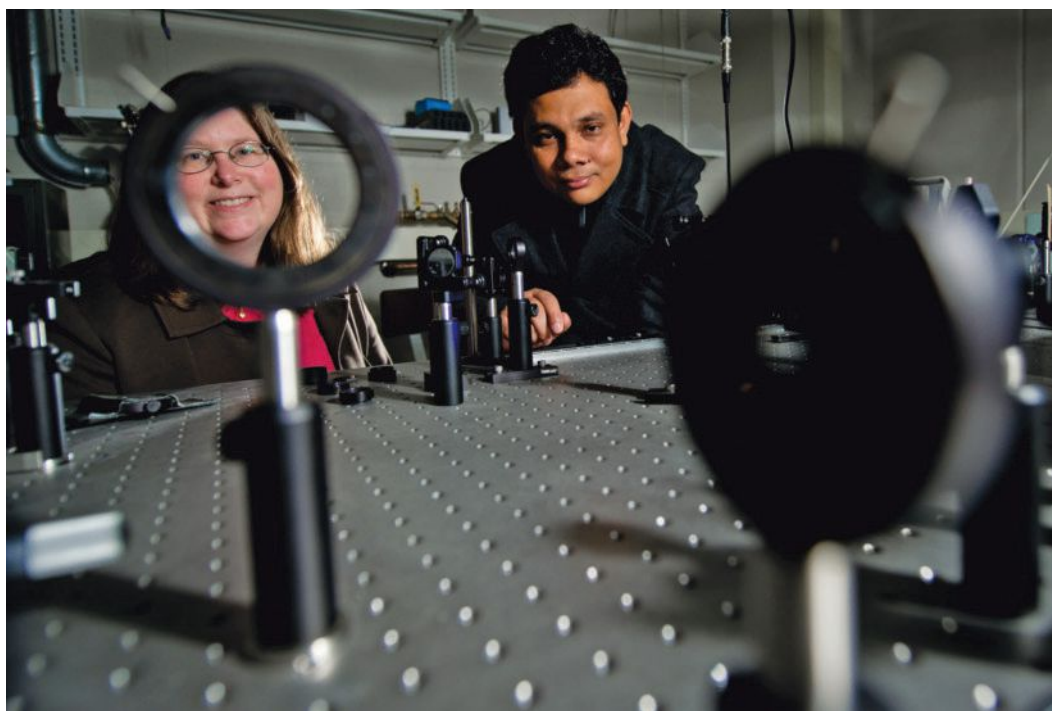
FRANCKELY SPEAKING

The quality of the *MSU Alumni Magazine* has consistently improved over the years and has reached the high point. The magazine excels in all areas—design, content, creativity and overall quality. You do a great job keeping us informed of university issues and emphasizing people, thus building a sense of pride and strengthening our relationship with fellow alums.

Chet Francke, ’54, ’75, ’82
Flint



AROUND CIRCLE DRIVE



RESEARCHERS SPOT PARKINSON'S PATH

Imagine if doctors could spot Parkinson's disease at its inception and treat the protein that triggers it before the disease can sicken the patient.

A team of researchers led by Basir Ahmad, MSU postdoctoral researcher, has demonstrated that slow-wriggling alpha-synuclein proteins are the cause of aggregation, or clumping together, which is the first step of Parkinson's. The results are published in the current issue of the *Proceedings of the National Academy of Sciences*.

Lisa Lapidus, MSU associate professor of physics and astronomy co-authored the paper with MSU graduate student Yujie Chen. Lapidus dedicated her lab to the process of building proteins in cells.

"There are many, many steps that take place in aggregation, but we've identified the first step," Lapidus says. "Finding a method to fight the disease at its first stage, rather than somewhere further down the road, can hopefully increase the success rate in which the disease is treated."

RECEPTOR ON PLATELETS

MSU chemists have found that a receptor on blood platelets might be useful in drug testing.

A team led by Dana Spence has revealed a way to isolate and test the receptor known as P2X1. Thus the team has unlocked a potential new drug target for many diseases that impact red blood cells, such as diabetes, hypertension and cystic fibrosis.

"Scientists are always looking for new 'druggable' receptors in

the human body," says Spence. "This receptor, P2X1, has long been viewed as unimportant in platelets; our studies show that is not necessarily true. The receptor is very active; you just need to be careful in working with it."

The research is published in *Analytical Methods*, a journal from the Royal Society of Chemistry in London.

"This research opens up new avenues of study and will allow researchers and pharmaceutical companies to re-appraise this

receptor as a druggable target," says Spence.

STUDY OF LAKE IN SIBERIA

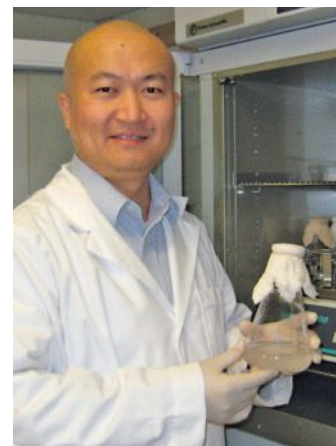
An award-winning MSU researcher will travel to Siberia to gauge how Lake Baikal, the world's oldest and largest freshwater lake, is adapting to global change.

Elena Litchman, MSU associate professor of ecology, through a \$2 million grant from the National Science Foundation will lead a team of researchers to study how planktonic organisms adapt to a

change. Baikal is the world's most bio-diverse lake.

"Human-induced global change is altering most ecosystems on Earth, and highly diverse ecosystems may be better buffered against change, maintaining key functions even as the environment changes," says Litchman, who is based at MSU's Kellogg Biological Station.

Litchman's team will focus on key organisms found only in Baikal that form the backbone of this ecosystem, map their genetic makeup and identify how they interact with the lake's inhabitants. The researchers will create mathematical models to predict how phytoplankton and zooplankton will react and reorganize in the future.



WASTEWATER SYSTEM FOR MILITARY USE

An MSU researcher is using a \$1.92 million Dept. of Defense grant to develop a portable wastewater treatment system that could improve the military's efficiency.

The solar-bio-nano project, spearheaded by Wei Liao, an MSU assistant professor of biosystems and agricultural engineering, also will generate energy and produce drinking water, thus providing a potential blueprint for the future of municipal/agricultural wastewater treatment systems.

During military operations, shipping from port to bases on or near the front lines can push the

cost of water up to nearly \$60 per gallon. A portable, self-sustaining system would allow the bases to be more nimble and cost-effective, Liao explains.

“Bases on or near the front lines could transport this small-scale system by semi-truck and greatly reduce their demand for water and fuel,” he says. “The integrated system can serve about 600 people, is patentable and hopefully can be scaled up to serve larger populations.”

Working with Liao on the project are Ilsoon Lee, MSU associate professor of chemical engineering and materials science, and Abraham Engeda, MSU professor of mechanical engineering.



Every semester, MSU faculty, staff and students garner kudos too numerous to list exhaustively here. Some examples:

► **Charles Mackenzie**, professor in the Dept. of Pathobiology and Diagnostic Investigation, College of Veterinary Medicine, has been named an Officer of the Order of Australia for his work in public health in fighting diseases such as elephantiasis and river blindness.

► **Youssef Kousa**, a graduate student in the MSU College of Osteopathic Medicine, has been awarded a \$65,000 tuition grant from the National Institute of Health. Kousa is working on research about cleft lip and palate.



MSU MOMENTS

This capsule of MSU history was written by Whitney Miller, processing archivist with MSU Archives & Historical Collections.

The Medal of Honor was the first medal awarded to individual members of the military to honor their gallantry and valor against an enemy force. Created during the Civil War, it is now the highest U.S. military decoration. It is bestowed by the President, in the name of Congress, and thus is sometimes called the Congressional Medal of Honor. It is the one military award that is worn around the neck.

Two former MSU students have been awarded the Medal of Honor. Harold A. Furlong, a native of Detroit who enrolled at MAC in 1914, was issued the medal in 1919 for his actions during the Battle of Bois-de-Bantheville (France) in World War I. When several comrades and his commander were killed by forward German machine gunfire, 1st Lt. Furlong crossed open space to move behind four separate machine gun nests, putting them out of action by killing or taking prisoner the enemy soldiers. At MAC Furlong was a member of the Varsity Debating team and the Forensic Literary Society, and served as publicity chairman for the YMCA. Furlong left MAC in his junior year to join the U.S. Army. After the war, he received a

medical degree from the University of Michigan. He was the only Michigianian to win the Medal of Honor in World War I.

Harry Linn Martin was a member of the U.S. Marine Corps Reserve who was posthumously awarded the Medal of Honor for his gallantry in action at Iwo Jima on March 26, 1945. 1st Lt. and platoon leader Harry Martin of Co. C, Fifth Pioneer Battalion, Fifth Marine Division heroically faced a surprise attack at dawn of the enemy Japanese forces. He worked his way through hostile fire to help his fellow soldiers who were trapped by the incoming barrage. Although he sustained two severe injuries in that action, he continued to battle the enemy by single-handedly charging a Japanese machine gun position, killing the hostile forces. He continued on, leading his men against the enemy until he was mortally wounded by a grenade blast. One of the great heroes of World War II, his legacy lives on in the name of the U.S. Navy Ship, the USNS 1st Lt. Harry L. Martin, named in 2006. Harry Martin graduated MSC in the Class of '36.



Martin



Furlong

USNS 1st Lt. Harry L. Martin





Photos courtesy of the Wharton Center

Academy of St. Martin in the Fields

WHARTON CENTER GETS WICKED AGAIN

After its smash success in 2007, *Wicked* returns to MSU's Wharton Center for Performing Arts from June 27-July 8. The prequel to the Wizard of Oz story, dubbed "the musical of the decade" by the *New York Times*, won three Tony Awards and one Grammy Award.

In addition, lovers of Broadway musicals will be able to savor *Memphis* (Mar. 27-Apr. 1), winner of four Tony Awards, including Best Musical. It tells the story of the underground dance clubs in Memphis in the 1950s. Celebrating its 25th anniversary, the legendary *Les Miserables* (Apr. 3-8) will return for a short run. The MSU Dept. of Theatre presents *Legally Blonde the Musical* (Apr. 20-29).

Art lovers will find a spectrum of entertainment the rest of the 2012 season, ranging from Motown in Motion with the Eisenhower Dance Ensemble (May 20) and Saxophonist Branford Marsalis (May 3) playing with MSU's premier jazz ensemble. Superstar Violinist Joshua Bell will lead the Academy of St. Martin in the Fields (Apr. 21) in an all-Beethoven program.



Les Miserables

Wicked

MSU DISCOVERS ALL-DAY ENZYME

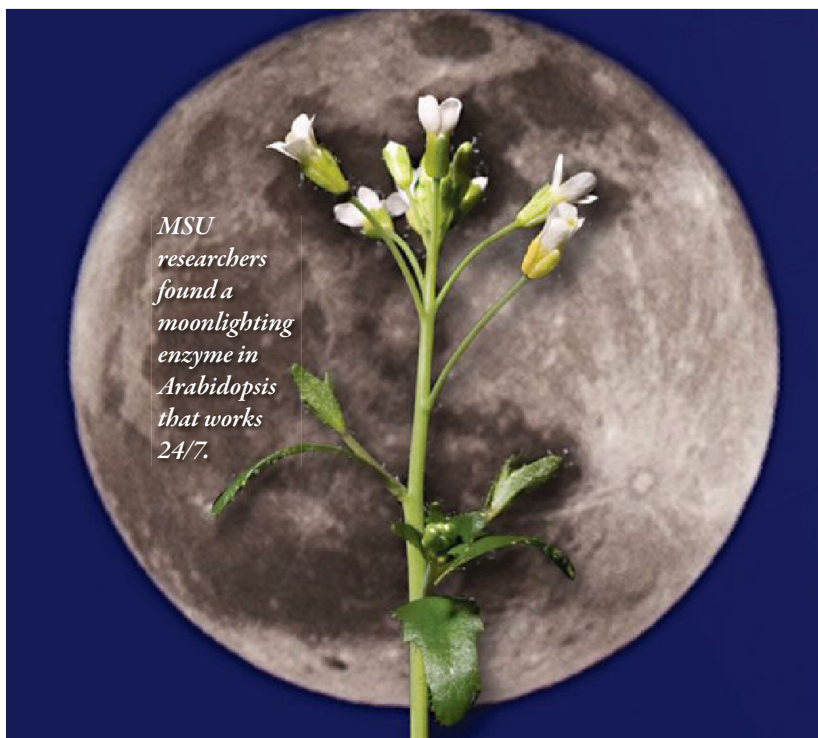
MSU researchers have discovered a plant enzyme that works both day and night shifts.

The discovery, featured in Proceedings of the *National Academies of Science*, shows that plants evolved a new function for this enzyme by changing merely one of its protein building blocks.

The enzyme, ATP synthase, usually works the day shift, serving as a key player in storing energy created through photosynthesis in the chloroplast. When the sun goes down most of these enzymes switch off to prevent energy from leaking out. But a newly changed protein block allows this enzyme to do another job at night, says David Kramer, Hannah Distinguished Professor of Photosynthesis and Bioenergetics.

"By exchanging this one building block, the enzyme gains a new function in the dark, in the roots," he says. "It's like a food processor. With one attachment it chops food. Swap it for another, and it kneads bread dough."

Kramer works in the MSU-Department of Energy Plant Research Laboratory. The research was funded in part by the U.S. Dept. of Energy, Chemical Sciences, Geosciences and Biosciences Division, Basic Energy Sciences.



MSU researchers found a moonlighting enzyme in *Arabidopsis* that works 24/7.

G.L. Kohuth/University Relations



AITCH FOUNDATION— Lauren Aitch (middle), former MSU basketball player who played professionally in Denmark, is helping to raise funds through the Aitch Foundation to support research into hidden cancers by the MSU HealthTeam. Seen here with MSU hoopster Draymond Green (left) and former coach

Gus Ganakas, Aitch will host a fashion show May 18. “The MSU HealthTeam’s wide spectrum of services was a natural connection for the foundation,” Aitch says.

MSU SOLVES A MEDIEVAL MYSTERY

Two teams of MSU researchers—one at a medieval burial site

in Albania, the other at a DNA lab in East Lansing—have shown how modern science can unlock the mysteries of the past.

The scientists confirmed the existence of brucellosis, an infectious disease still prevalent today, in ancient skeletal remains.

The findings, which appear in the *American Journal of Physical Anthropology*, suggest brucellosis has been endemic to Albania since at least the Middle Ages.

“For years, we had to hypothesize the cause of pathological conditions like this,” says Todd Fenton, associate professor of anthropology.

David Foran, director of MSU’s Forensic Science Program, heads the DNA lab that analyzed the ancient bone samples from Albania. He says the collaboration on the project highlights the benefits of modern science and interdisciplinary research, even when the respective research teams are some 5,000 miles apart.



NO ANGRY BIRDS, JUST GRUMPY SNOWMEN

Students and faculty at MSU’s Games for Entertainment and Learning Laboratory have created a video game that features Sparty, in a parody of Angry Birds, taking on undesirable snowmen from rival Big Ten schools on campus.

“We knew the concept of an ‘Angry Birds’ parody would be fun to develop and play,” says Brian Winn, co-director of the GEL Lab. “This game showcases the level of design, animation, programming and project management skills that our students are developing at MSU.”

The game is available for free through a website and also as an app on the Apple iTunes store. A holiday edition launched on the Apple iTunes App Store this winter has surpassed 8,000 downloads and 60,000 plays.

Kurt Stepnitz/University Relations

BROAD ART MUSEUM TO OPEN NEXT FALL

The formal dedication of the Eli and Edythe Broad Art Museum at MSU will occur in the fall. Originally scheduled for Spring 2012, the postponement was due to material supply delays and the goal of involving students in opening activities.

The delay is not expected to change the budget for the construction project.

“We have an uncompromising commitment to assure the integrity of this powerful architectural statement, which is an investment in the enduring impact the museum will have on the university, our students and faculty, the community, the state of Michigan and the art world,” says MSU President Lou Anna K. Simon. “We’re pushing the limits for something extraordinary, and we will do what it takes to get it right.”

Museum Director Michael Rush says the delay will not impact the

quality of future exhibits. “We’re looking forward to a world-class opening and exhibitions,” he says. “In the meantime, several off-site projects and public programs will continue.”

SPEEDY DETECTION OF BIOHAZARDS

A new company formed around MSU nanotechnology promises speedier detection of deadly pathogens and toxins than available through laboratories.

The company, nanoRETE, will commercialize an inexpensive way to use handheld biosensors to detect threats such as E.coli, Salmonella, anthrax and tuberculosis.

The new portable diagnostic technology utilizes nanoparticles with magnetic, polymeric and electrical properties developed by Evangelyn Alcolilja, MSU professor of biosystems and agricultural engineering and chief scientific officer of nanoRETE.

“Our unique preparation, extraction and detection protocol enables the entire process to be conducted in the field, without significant training,” Alcolilja says. “Results are generated in about an hour from receipt of sample to final readout, quickly identifying contaminants so that proper and prompt actions can be taken.”

MSU Technologies, the office that manages technology transfer at MSU, was actively involved in licensing the technologies to nanoRETE. The technologies also earned funding from the MSU Foundation.

\$20 MILLION FOR FRIB'S NEXT PHASE

MSU has established a budget of \$20 million to prepare for development of the Facility for Rare Isotope Beams, a world-class nuclear research facility that will attract scientists from all over the world to East Lansing.

"MSU continues to move forward with FRIB, ensuring that we are prepared when federal and state officials make appropriate decisions to allocate resources to this project, which is important to MSU, Michigan and U.S. research capabilities," says MSU President Lou Anna K. Simon. "We are confident that our team will successfully present the project at a review by the Department of Energy's Office of Science in April and will be ready for excavation to start."

FRIB is expected to bring more than \$1 billion in total economic activity to Michigan during the

next 10 years, according to a report by the Anderson Economic Group. Construction is expected to begin later this year, with completion set for 2020. The facility is expected to employ about 400 persons, as well as create 5,000 construction jobs.

FRIB also will be critical to preparing the next generation of scientists. MSU's nuclear physics doctoral program was named the nation's best by *U.S. News and World Report* last year, and the prospects of FRIB continuing the National Superconducting Cyclotron Laboratory's reputation as the world's top rare isotope facility is helping the university continue to attract world-class students and faculty.

PIONEERING CANINE OPEN-HEART SURGERY

Leo, a two-year-old Australian Shepherd from Ann Arbor, made



history last fall as the first dog to undergo open-heart surgery at MSU's Veterinary Teaching Hospital.

Since then, Augusta Pelosi, a cardiac surgeon with the College of Veterinary Medicine, has led a team of more than 20 veterinary and human health experts in performing two more success-

ful open-heart canine surgeries.

"The only way to fully correct many cardiac defects is to target the problem itself with open-heart surgery," notes Pelosi, who joined MSU's Dept. of Small Animal Clinical Sciences in 2008 after previously completing residencies in surgery and cardiology at MSU with pioneer veterinary

surgeon George Eyster.

After several years of training and research, Pelosi now leads about 20 veterinary professionals—specializing in critical care from cardiology to anesthesia—as part of the Veterinary Teaching Hospital's open-heart team. Pelosi also partners with human health professionals from the University of Michigan's cardiac surgery team.



IT'S THE NETWORK

*By Scott Westerman, III, '78
MSUAA Executive Director*

When we started to re-invent your MSU Alumni Association on New Year's Day, 2010, we quickly realized that our key value proposition was "The Network."

What sets Spartans apart from most other alumni is our desire to help one another. It's an ethic that is wired in our psyche from the moment we come to campus and it resonates throughout "The Spartan Life." It's not an exaggeration to say that if you're a Spartan, you'll take a phone call from another Spartan, even if you've never met.

Our alumni reflexively shout "Go Green" across airport concourses whenever we see someone in Spartan attire. And meeting a fellow Spartan in some far flung corner of the world is like finding a long lost relative.

This is unique. You know what I'm talking about because you immediately empathized with the examples I just gave. The truth is, we were networking before networking was cool. MSU invented the Internet before there were computers. We called it Cooperative Extension, a networking model that has been emulated in virtually every state in the union. MSU experts connected with families across the state to learn what challenges they faced. We leveraged our research culture to craft advice and solutions that we printed in hundreds of extension bulletins that were distributed across the state.

MSUAA's desire to be "Your Personal Network... for Life," and "To help you get from wherever you are now, to wherever you want to be," is the overarching theme of everything we do. And we do it with the help of The Network.

Whatever problem you may currently be wrestling with, whatever need you may have at this very moment, these are waters that other Spartans have navigated. The MSUAA's job is to help you connect with them and completing your network with the resources you need to help make your dreams come true.

There are many layers to the Spartan Network. The MSUAA is engaged at every level. We seek to interact with alumni in their language and via their preferred medium. It could be by email, through our portals on Facebook, Twitter and LinkedIn, via our alumni.msu.edu website, at club meetings, via Skype, text messaging, over the phone or face to face. This magazine serves as a networking tool when alumni are featured in Profiles and State's Stars. Wherever you are, whatever you may need, there is a Spartan out there who can help. And it's a pretty good bet that we can facilitate the connection.

2012 will be "The Year of the Network." You'll access it at home, at work, in your car and wherever there is cell service. The connections you build will play a pivotal role in creating the prosperity and happiness that is at the end of every Spartan rainbow.

So if you find yourself headed to an unfamiliar town, stuck in an uncomfortable job or stumped by a perplexing problem, do what we do: Engage "Your Personal Network... for Life." And ask a Spartan.



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Alumni Reunion Days

Celebrating Graduates of the 1960s and earlier

June 7 & 8, 2012

All Michigan State University Spartans from the 1960s are invited to return to campus for Alumni Reunion Days, sponsored by the MSU Alumni Association. Members of the Class of 1962 celebrating their 50th reunion will be recognized.

To request a brochure of reunion activities call Michelle Eifert at (517) 432-9459.

Rooms have been reserved at the following locations:

Kellogg Center: (800) 875-5090 | Marriott Hotel: (517) 337-4440 | Candlewood Suites: (517) 351-8181
Courtyard By Marriott: (517) 482-0500 | Hampton Inn: (517) 324-2072

Make sure you mention Alumni Reunion Days. Space is limited and will be released on May 1, 2012.

For more information and to register: alumni.msu.edu/ARD

MICHIGAN STATE
UNIVERSITY

Alumni Association



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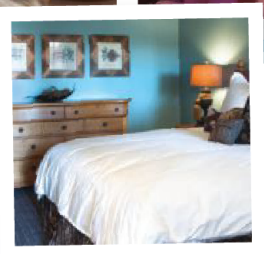
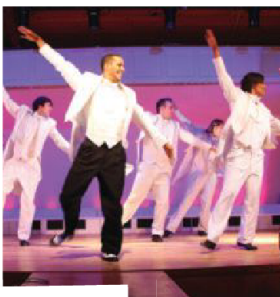
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Name:
Jordan Levin
Affiliation:
Alumnus, 1999
Current Residence:
Bloomfield Hills, MI

Jordan Levin never gives up

"I am someone who has always been relentless," Levin says. "Someone who has never taken 'no' for an answer. Someone who has always been able to push through any obstacle that has ever been set forth in front of me."

This is a man who pushes through the barriers in life and helps others find their own way down hard roads. "We (Jordan Levin Childhood Obesity Foundation) work with local hospitals, and we work with them on helping economically challenged kids and families to become healthy. A lot of times, families have a hard time getting healthy. One, they may not know what to do. Two, they may know what to do, but they don't have the resources to do so. We try to help them with that. We allow them to come and work out at the facility or they can work out at part of the hospital, which has different programs with psychologists and nutritionists and things like that.

Levin finds ways to help others find peace of mind and body. "Everybody has kids, wives, husbands, families; a big house, a small house; stress, you are caring for another family member—things like that. When you come into my facility, you have about one hour to let loose, forget about all that, and just focus on what we are doing and enjoy yourself."

The peace he helps others tap into helps him plug into his own. "When I go to sleep at night—don't get me wrong, it takes me a long time to fall asleep because my mind is always going. Yeah, granted, I have a lot of things on my plate, but it is all positive things. The more things I do, the more enjoyment I get out of it. But it is not even about money. It is just about helping people and having fun with it and seeing the smile on other people's faces. That is all that matters to me."

Since the day he was born—three months premature—Jordan Levin has been a fighter. Levin taught himself to read lips and, with encouragement from his parents, learned not only to speak, but also to achieve and help others achieve in a world he can't hear. After earning a bachelor's degree in business from MSU, Levin found his calling as a motivational speaker and fitness trainer. In addition to running his own fitness business, Levin helps young people overcome challenges to live healthier lives through the charitable organization he founded, the Jordan Levin Childhood Obesity Foundation.

YOUR BEQUEST WILL MAKE A DIFFERENCE



A charitable bequest to Michigan State University is a thoughtful expression of your commitment to MSU and its future students. The MSU Office of Gift Planning is a valuable resource for alumni and friends to explore how they may, through their estate plans, efficiently remember and support the college, department and/or Spartan athletic, cultural or academic program of their choice.

Remember Michigan State University in your will or personal trust.

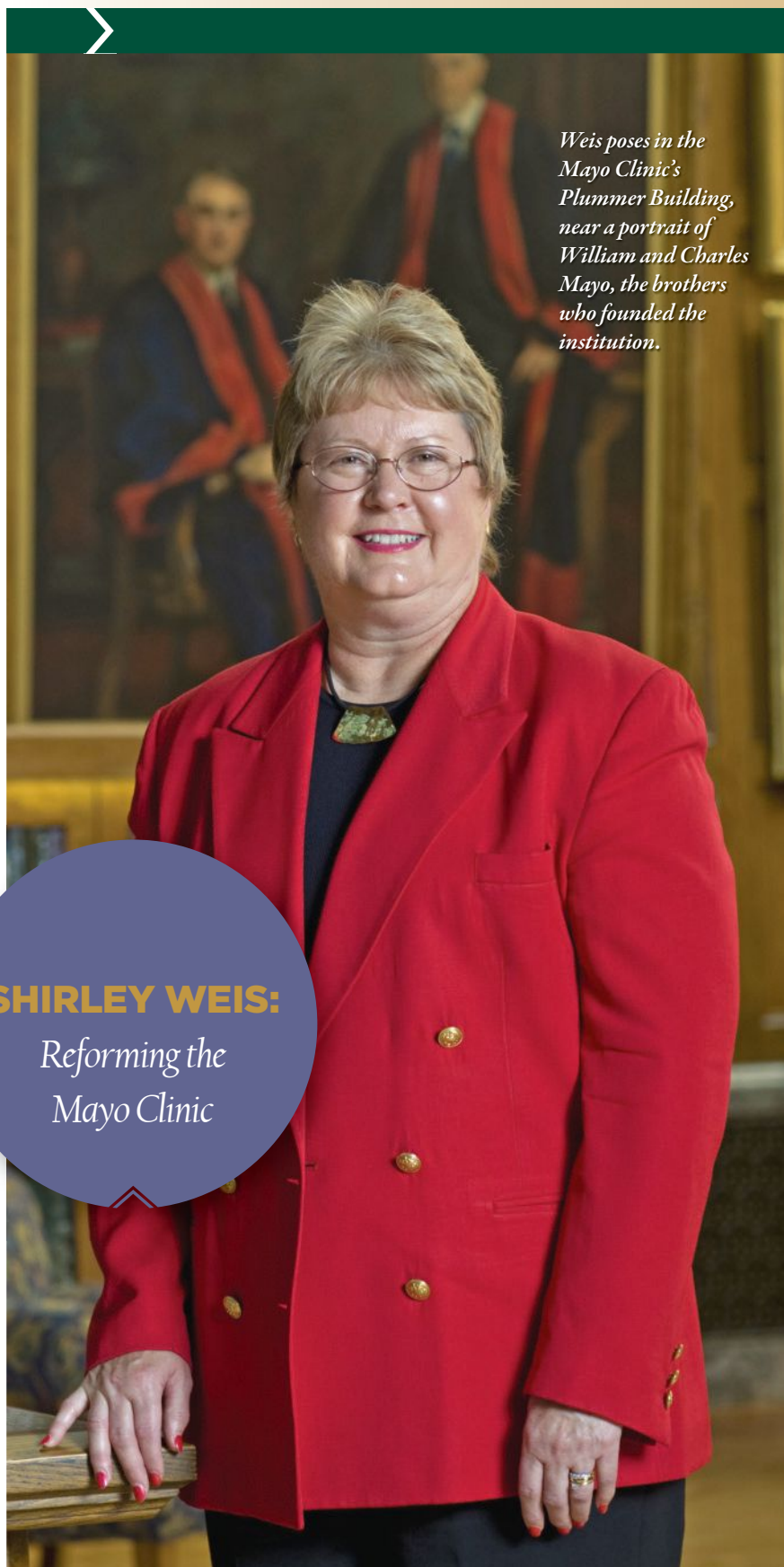
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MICHIGAN STATE
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University Advancement



SPARTAN PROFILES



Weis poses in the Mayo Clinic's Plummer Building, near a portrait of William and Charles Mayo, the brothers who founded the institution.

SHIRLEY WEIS:

Reforming the Mayo Clinic

The Mayo Clinic boasts perhaps the top brand name in health care. Today, with 56,000 employees, more than a million face-to-face patients and \$9 billion in revenue a year, the Mayo Clinic continues to hum under the leadership of **Shirley Weis**, '75, chief administrative officer since 2007—the clinic's eighth CAO in its 140 years. Weis took charge at a time of a national financial crisis, so she spearheaded a monumental effort to contain costs and reinvent health care management, sagely winning the cooperation of employees. "We were able to cut expenses dramatically but we didn't lay anyone off," says Shirley, who notes with pride that the Mayo Clinic has made *Fortune's* "100 Best Companies to Work For" for eight straight years. "We continue to ride that wave," she says. "Our surveys show that we're the most trusted name in health, worldwide, and we guard our brand jealously. We do very little advertising—it's mostly word of mouth." She is working on a strategic plan for the next five years, trying to "take our knowledge and deliver it to people. Our motto is touching people here, there and everywhere." Shirley notes that besides the three campuses in Rochester, MN, Florida and Arizona, the Mayo Clinic has a number of affiliates, laboratory systems as well as mayoclinic.com, through which they touch some "20 million people" a year. Winner of an MSU Distinguished Alumni award, Shirley joined the MSU College of Nursing Advisory Council in 1999 and served as its chair for the past three years. She has also established an endowed scholarship fund to honor her parents, Charles E. and Harriet L. Bader, of Howell, and was instrumental in getting university endorsement for the college's Life Sciences Building Campaign.

DENNIS LEWIN: LITTLE LEAGUE

For 30 years, he was one of the nation's top innovators in the area of sports broadcasting—helping pioneer such things as wireless cams on umpires' masks, which, ironically, was first put into effect in Little League games. In retirement, he continues to make use of his sports background—as the chairman of the Little League board of directors. **Dennis Lewin**, '65, longtime ABC Sports and National Football League executive, is now volunteering his vast expertise to help run Little League and its more than two and half million participants in 70 countries. "I played in Little League when I was a kid, and my parents were involved in coaching," says Lewin. "This is coming full circle." Indeed, Dennis remembers that his first day at ABC's *Wide World of Sports*—which he eventually ran for 15 years—he attended a meeting involving the editing of the Little



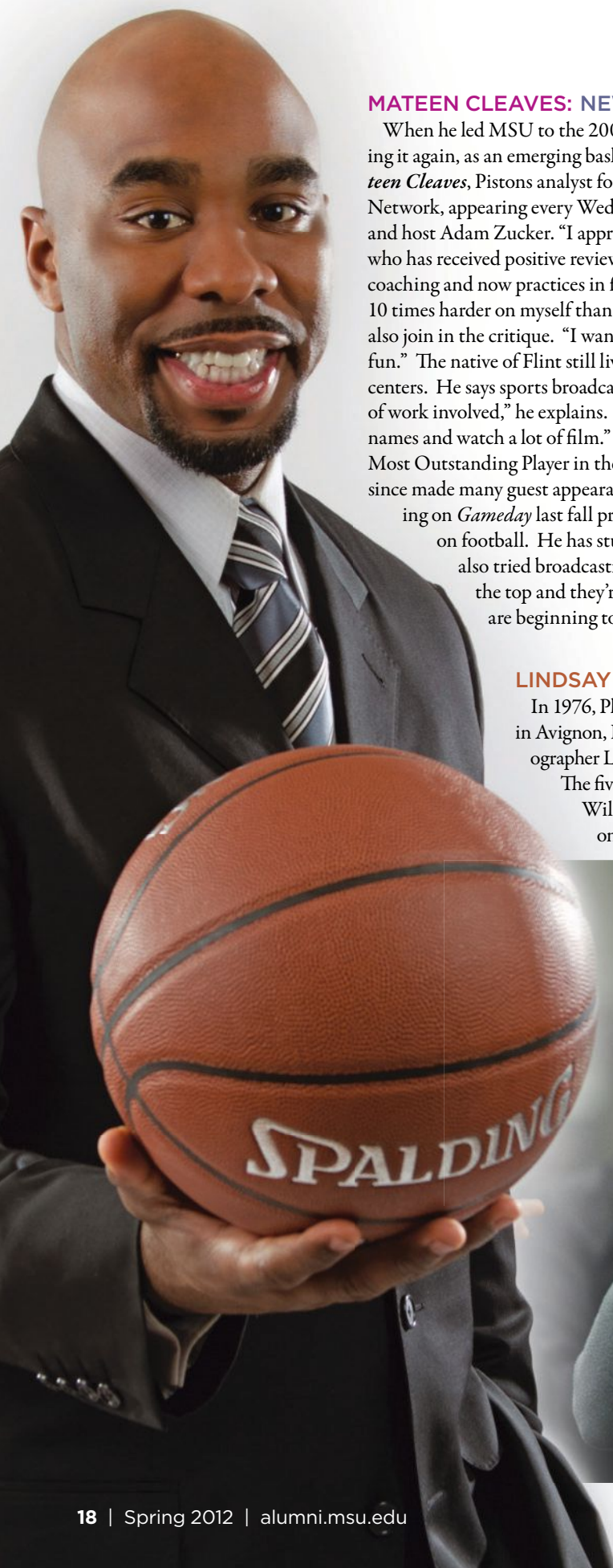
League World Series. A native of Forest Hills, NY, he chose to attend MSU because he had followed MSU's football success in the 1950s. "So much for the idea that athletics is not important to a university," he says. At MSU, he became manager of the hockey team. "(Then hockey coach) Amo and Mary Bessone mean more to me than anyone outside my family," says Dennis. "They became my surrogate parents." At MSU Dennis also discovered his interest in sports broadcasting, and parlayed that into a 40-year career during which he headed ABC's *Wide World of Sports*, covered eight Olympics and produced *Monday Night Football*. In 1997 he worked for the National Football League and ran their broadcast operations and scheduling. During his career he was credited with numerous innovations, such as putting horse names on saddle cloths—an idea inspired by Secretariat's triple crown run—and the use of the footage of skier Vinko Bogataj whose crash became ABC-TV's iconic image for "the agony of defeat." Today he is very happy helping run Little League. "It's my opportunity to give back," he says. "I never had the time to volunteer since sports broadcasting essentially took up every weekend of my career."

JEFF SINELLI: WHICH WICH?

Last year, the fastest growing restaurant chain in North America was Which Wich?, a casual sandwich chain headquartered in Dallas, TX. Founded in 2003 by restaurateur *Jeff Sinelli*, '90, Which Wich? began franchising in 2005 and grew to 158 locations by the end of

2011—ranging across 22 states. "We took on a crowded market," says Sinelli, the company's founder and CEO. "We took ordinary sandwiches and made them extraordinary. We did it in two ways—with the ordering system, and with the product itself. We also stepped it up with superior service. We elevated the sandwich, the experience and the environment." Indeed, consumers at Which Wich? use a simple markup system—checking off choices on a brown paper bag—to place their orders. "In a digital world, we're using a unique analog system that should survive the test of time," he says, noting that the ordering system can work well in any country. "This idea came from my mother, who used to pack lunches for my brother and I in grade school and she marked the brown bags with our names," says Jeff. A native of Detroit, Jeff learned about the restaurant business from his father, an attorney who also owned a number of nightclub bars in Detroit. Jeff was recruited to play lacrosse at MSU by then coach Rich Kimball. "MSU was an awesome experience, the fastest four years of my life," he recalls. "I came in as an adolescent and left as a man. I learned a lot about life. In sports, I came in as an amateur and later played some professional lacrosse." Jeff later developed the Genghis Grill, a chain of Mongolian barbecue restaurants, among other concepts, and won the prestigious Hot Concepts! Award by *Nation's Restaurant News*—a feat he later repeated with Which Wich? Ironically, Jeff was featured on the cover of *QSR* magazine as a "branding phenom." "That was before we even sold one sandwich," he muses. "We had to succeed just to live up to that headline."





MATEEN CLEAVES: NEW CBS SPORTS ANALYST

When he led MSU to the 2000 NCAA basketball championship, he studied a lot of film. Now he's doing it again, as an emerging basketball analyst who boasts both game knowledge and on-air charisma. *Mateen Cleaves*, Pistons analyst for Fox Sports Detroit, has gone national as a studio analyst for CBS Sports Network, appearing every Wednesday on *Inside College Basketball* with Wally Szczerbiak, Jon Rothstein and host Adam Zucker. "I approach this with the same attitude I had when I played at MSU," says Cleaves, who has received positive reviews so far. "I try to get better every day." Mateen says he received some coaching and now practices in front of a mirror and does self-criticism. "Just as when I was a player, I am 10 times harder on myself than anyone else," he says, adding that occasionally his wife and two boys will also join in the critique. "I want to be one of the best, and I have a long way to go. You also want to have fun." The native of Flint still lives in his home city and spends a lot of time mentoring kids at community centers. He says sports broadcasting is not something any athlete can do just by winging it. "There's a lot of work involved," he explains. "You have to study the teams, the stats, the players, how to pronounce their names and watch a lot of film." A three-time All-American, two-time Big Ten Player of the Year and the Most Outstanding Player in the 2000 Final Four, Mateen retired from pro basketball in 2009 and has since made many guest appearances on ESPN, the Big Ten Network and other television outlets—including on *Gameday* last fall prior to MSU's Homecoming game against Wisconsin, when he commented on football. He has studied fellow Spartans like Magic Johnson, Steve Smith and Eric Snow, who also tried broadcasting. So what is his opinion on this year's Spartan cagers? "MSU is right at the top and they're getting better," says Mateen, adding with a chuckle, "The national guys are beginning to figure out that Tom Izzo knows what he is doing."

LINDSAY KESSELMAN: EINSTEIN ON THE BEACH

In 1976, Philip Glass' revolutionary opera *Einstein on the Beach* made its world debut in Avignon, France. Created in collaboration with director Robert Wilson and choreographer Lucinda Childs, the opera was hailed as one of the century's masterpieces.

The five-hour tour de force is now being revived by the same creative team—Glass, Wilson & Childs. A year-long international tour will begin in Ann Arbor and one of the cast members is emerging American soprano *Lindsay Kesselman*,

Kesselman rehearses with the Phillip Glass Ensemble in New York, just before Einstein on the Beach opened in Ann Arbor.



'06, who is "ridiculously excited" at the opportunity. "It's such a unique opportunity," says Kesselman, who lives in Ann Arbor but had to make several trips to New York during the audition process. "The caliber of people involved is really, really special and it's a privilege to work with them. My generation will be introduced to this opera live for the first time." A native of Chicago, Lindsay comes from a family of musicians and chose MSU because, she recalls, "MSU was renowned for music education and all my friends who went to MSU couldn't say enough about how wonderful it is, an opinion that I now share as well." Lindsay touts many in the faculty for helping her, including voice teacher

Melanie Helton and choral professors David Rayl, Jonathan Reed and Sandra Snow. She also credits former faculty member Patricia Green for steering her interest toward new and contemporary music. "I am really grateful for having had an opportunity to be the lead in three opera productions as an undergraduate," she notes. Lindsay will spend a year performing in Montpellier, London, Amsterdam, Toronto, Mexico City and Berkeley. "Einstein on the Beach was a powerful turning point because it caused people to think of opera in a completely new way," says Lindsay. "It is a very dramatic and compelling combination of theatre and dance and it's completely captivating."

TOM RYAN: AMERICA'S MOST PROMISING COMPANY

Atop *Forbes'* list of America's 100 "Most Promising Companies" is Smashburger, a gourmet burger restaurant chain based in Denver. The company was founded in 2007 by **Tom Ryan**, '79, MS '82, PhD '85, who serves as its Chief Concept Officer. Despite the recession, the company has grown meteorically to \$54 million in annual revenues at 143 locations in 20 states, with another 450 franchise agreements on the books. "We aspire to become the No. 1 global better-burger brand," says Ryan, who headed McDonald's marketing operation and previously worked at Proctor & Gamble and Pepsico. "We are highly differentiated not only from other burger places but from a broad spectrum of brands that we compete against." The biggest difference is that Smashburgers, made from Angus beef, are smashed on a buttered griddle so that the bottoms are seared and caramelized. "Our 1/2 and 1/3 pound burgers cook in their own juices and have a tremendous amount of flavor," notes Tom. "It takes us just three minutes to cook them." Smashburger also offers fried veggie sides, Haagen-Dazs milk shakes, and beer and wine. Toppings include avocado, fried eggs and garlic mushrooms, and sauces include chipotle mayo and spicy brown mustard. "This is a modern brand serving the next generation," says Tom. "We have a concept that's on trend and passionate, fabulous people." A native of Grand Rapids, Tom fell in love with MSU during his visit and never regretted his decision, earning three degrees. "I loved my experience," he recalls. "(Retired Vice President for Research and Graduate Studies) Ian Gray was my major professor and he was instrumental in shaping my life and in putting me on an entrepreneurial path." Although he is busy with business expansion, which includes international franchises in the Middle East, Canada, Latin America and Asia, he still follows his beloved Spartans. "I was on needles and pins watching the Outback Bowl," he says. "What a fabulous ending."





SPARTAN PATHWAYS TRAVEL PROGRAMS 2012



THE GALAPAGOS ISLANDS

*featuring MSU Alumna
Jessica Pociask*

April 14-22

From: \$5,490 pp + air

Program Type: Cruise

WANT Expeditions

Highlights:

Small group of 16 • Quito • Baltra/
Bachas Beach • Genovesa Island •
Bartolome/Sullivan Bay • Santiago
Island • Daphne Island • Caleta
Tortuga Negra • Charles Darwin
Research Station • Santa Cruz Island
• Floreana Island • Espanola Island •
San Cristobal

***WATERWAYS OF HOLLAND
& BELGIUM featuring the
Floriade Expo and with MSU
Professor Alan Prather**

April 17-25

Wait List

From: \$2,795 pp + air

Program Type: Cruise

Gohagan & Co.

Highlights:

Amsterdam • Volendam • Venlo •
Florida Expo • Antwerp • Bruges •
Willemstad • Kinderdijk • Aalsmeer •
Keukenhof Gardens

TAHITIAN JEWELS

April 22-May 4

Sold Out

From: \$2,799 pp, including air from
select cities

Program Type: Cruise

Go Next

Highlights:

Papeete • Moorea • Huahine •
Raitea • Bora Bora • Nuku Hiva •
Hiva Oa • Rangiroa

LONDON ~AN INSIDER'S PERSPECTIVE

April 25-May 1

From: \$2,595 pp + air

Program Type: Land

AHI International

Highlights:

The Lansdowne Club • Windsor
Castle • The BBC • Royal Academy of
Dramatic Arts • Blenheim Palace •
Cotswolds • Oxford

THE KENTUCKY DERBY

May 3-6

From: \$2,179 pp + air

Program Type: Land

Premiere Global Sports

Highlights:

Saturday Admission to the Derby •
Churchill Downs Reserved Seating
• Horse Farm Tour • Bourbon
Distillery Tour

ANTEBELLUM SOUTH ~ MEMPHIS TO NEW ORLEANS

May 13-22, 2012

From: \$1,995 pp + air

Program Type: Cruise

Go Next

Highlights:

Memphis • Helena • Vicksburg • Natchez
• St. Francisville • Baton Rouge • Oak
Valley • New Orleans

HISTORIC REFLECTIONS ~ ATHENS TO BARCELONA

May 13-24

From: \$3,549 pp, including air from
select cities

Program Type: Cruise

Go Next

Highlights:

Athens • Santorini • Kusadasi • Sicily
• Amalfi/Positano • Rome • Florence/
Pisa • Marseille • Barcelona

ESSENTIAL EUROPE FOR NEW GRADUATES

May 13-31,

extension May 31-June 5

From: \$3,375 pp + air

Program Type: Land

AESU World Travel

Highlights:

England • France • Belgium •
Holland • Germany • Switzerland
• Liechtenstein • Austria • Italy •
Vatican City • Greece Extension

*WOLVES, BEARS AND GEYSERS

*featuring Michigan DNR
Specialist Kevin Frailey*

May 19-24

From: \$2,195 pp + air

Program Type: Land

Environmental Adventure
Company

Highlights:

Yellowstone National Park •
Mammoth Hot Springs • Lamar Valley
• Hayden Valley • Yellowstone Lake •
Old Faithful

EUROPEAN MOSAIC

June 16-27

From: \$3,999 pp, including air
from select cities

Program Type: Cruise

Go Next

Highlights:

Lisbon • Gibraltar • Casablanca •
Granada • Valencia • Barcelona •
Marseille • Monte Carlo • Florence/
Pisa • Rome

WASHINGTON, D.C. FAMILY TOUR

June 28-July 1

From: \$1,069 pp + transportation,
Child (17 and under) \$579

Program Type: Land

Conlin Travel

Highlights:

Spy Museum •
U.S. Capitol • Pentagon

BEST OF THE CANADIAN ROCKIES

July 8-14

From: \$4,090 pp + air

Program Type: Land

Tauk

Highlights:

Lake Louise • Jasper Park • Banff
National Park • Icefields Parkway
• Fairmont Hotels

BALTIC TREASURES ~ STOCKHOLM TO COPENHAGEN

July 11-22

From: \$3,999 pp, including air
from select cities

Program Type: Cruise

Go Next

Highlights:

Stockholm • Helsinki • St.
Petersburg • Tallinn • Riga •
Visby • Gdansk • Ronne • Berlin •
Copenhagen

ICELAND

July 20-28

From: \$4,195 pp + air

Program Type: Cruise

Gohagan & Co.

Highlights:

Reykjavik • Grundarfjörður •
Grimsey Island • Akureyri •
Isafjörður • Heimaey Island •
Surtsey Island • Thingvellir
National Park • Gullfoss • Geysir

THE BLUE DANUBE ~ PRAGUE TO BUDAPEST

August 8-20

From: \$4,290 pp + air

Program Type: Cruise & Land

Tauk

Highlights:

Prague • Regensburg • Passau •
Linz • Wachau Valley • Dürnstein
• Vienna • Slovakia • Bratislava •
Budapest



CRUISING ALASKA'S GLACIERS AND INSIDE PASSAGE

August 9-16

From: \$4,384 pp including air from select cities

Program Type: Cruise

Gohagan & Co.

Highlights:

Vancouver · Ketchikan · Juneau · Skagway · Sitka · Seward · \$250 Shipboard Credit

SCOTLAND ~ ALUMNI CAMPUS ABROAD

August 22-30

From: \$2,795 pp + air

Program Type: Land

AHI International

Highlights:

Stirling · Trossachs National Park · Loch Lomond · Scone Palace · Famous Grouse · Edinburgh · Military Tattoo · Scottish Highlands · Loch Ness

ODYSSEY TO OXFORD

August 25-September 8

From: \$4,995 pp + air

Program Type: Land **Sold Out**

MSUAA Lifelong Education

Highlights:

Courses offered in British history, literature, science, art, archaeology, historic houses, castles, and gardens with specific field trips and group excursions throughout England.

NORMANDY AND PARIS ~ ALUMNI CAMPUS ABROAD

August 29-September 7

From: \$2,995 pp + air

Program Type: Land

AHI International

Highlights:

Honfleur · Lisieux · Giverny ·

Rouen · Bayeux · Caen · Omaha Beach · Paris

*THE JEWELS OF MICHIGAN ~ STATE PARKS TOUR featuring Michigan DNR Specialist Kevin Frailey

September 6-9

From: \$719 pp, including transportation from Lansing

Program Type: Land

Conlin Travel

Highlights:

Mackinac Island · Tahquamenon Falls · Great Lakes Shipwreck Museum · Hartwick Pines · Fort Michilimackinac · Petoskey · Oden Fish Hatchery

TUSCANY CULINARY TOUR

September 8-14

From: \$3,595 pp + air

Program Type: Land

LeChat Gourmet

Highlights:

Hands-on Cooking Classes · Tuscan Food & Wine · Vineyard Tour · Olive Mill Tour · Food Market Tour · Florence · Montepulciano · Cortona

*BEST OF TANZANIA featuring MSU Professor Barbara Lundrigan

September 10-21

From: \$5,090 pp + air

Program Type: Land

Safari Legacy

Highlights:

Serengeti · Ngorongoro Crater · Olduvai Gorge · Tarangire National Park · Lake Manyara

CANADA & NEW ENGLAND FALL FOLIAGE

October 7-19

From: \$3,999 pp, including air from select cities

Program Type: Cruise

Highlights:

Montreal · Quebec City · Corner Brook · Charlottetown · Sydney · Halifax · Saint John · Bar Harbor · Rockland/Camden · Newport · New York

TUSCANY WITH FLORENCE ~ ALUMNI CAMPUS ABROAD

October 10-18

From: \$2,795 pp + air

Program Type: Land

AHI International

Highlights:

Cortona · Assisi · Perugia · Montepulciano · Pienza · Siena · Florence

TREASURES OF PERU WITH MACHU PICCHU & LAKE TITICACA

October 22-November 1

From: \$3,895 pp, including air from select cities

Program Type: Land

Highlights:

Lima · Larco Herrera Museum · Cuzco · Sacred Valley · Ollantaytambo · Machu Picchu · Lake Titicaca · Taquile Island

HISTORIC REFLECTIONS ~ BARCELONA TO ATHENS

October 25-November 5

From: \$3,499 pp, including air from select cities

Program Type: Cruise

Go Next

Highlights:

Barcelona · Marseille · Florence · Pisa · Rome · Amalfi · Positano · Sicily · Kusadasi · Santorini · Athens

AEGEAN MARVELS ~ ISTANBUL TO ATHENS

October 31-November 8

From: \$1,999 pp, including air from select cities

Program Type: Cruise

Go Next

Highlights:

Istanbul · Dikili · Volos · Kusadasi · Rhodes · Crete · Athens

HOLIDAYS IN BAVARIA & AUSTRIA

December 4-11

From: \$1,995 pp + air

Program Type: Land

Orbridge, Inc.

Highlights:

Munich · Salzburg · Vienna · Innsbruck · Christmas Markets



All dates, prices and itineraries are subject to change. Most prices listed are early booking prices and will change depending on the early booking deadlines. Call the MSUAA at (888) 697-2863 for early booking deadlines. Reservations are on a first come, first served basis. Since the MSUAA partners with other universities, many tours fill quickly. It is essential that you make your deposit early to reserve space on the tour. Brochures are generally printed and mailed eight to eleven months prior to trip departure.

**A minimum number of participants are needed to send the MSU host.*

For more information on Spartan Pathways tours or to request a 2012 travel guide or travel brochures, visit www.alumni.msu.edu/travel or call (888) 697-2863.



H2O

MSU is Immersed

MSU

GETS WET



By Michael Steger

**In recent years MSU has dived
into a number of research
projects that involve one of the
most precious commodities of
our time—water.**

Immersed in the Growing Field of Water Research

Water is one of the simplest chemical molecules. Yet as simple as a water molecule is—two hydrogen atoms and one oxygen atom—the size and complexity of issues involving one of the greatest natural resources continues to grow.

While 70 percent of the Earth's surface is water, only 2.5 percent is fresh water and of that, less than 1 percent is easily accessible. Water use has grown at more than twice the rate of the global population in the last century, according to the United Nations Food and Agriculture Organization. The UN predicts that by 2025 more than 1.8 billion people will live in areas where water is scarce.

Geopolitically, water is not the “new oil”—it is far more important. It sustains life. For centuries, water has been a source of conflict as scarcity and access to clean water have played key roles throughout world history. The challenges surrounding water issues remain pervasive in politics, economics, social forces, economic activity, environment and science.

A systems approach is necessary to incorporate the many disciplines and to account for the many natural and human forces in play. Related issues span health, energy, biology, the environment and society.

Researchers at MSU are uniquely positioned to tackle the water problems and a recent initiative is providing more resources and allowing MSU to make major strides in dealing with the world’s water issues.

“Water problems require a collaborative interdisciplinary approach so we can identify all the issues needed for solutions,” says R. Jan Stevenson, co-director of the MSU Center for Water Sciences. “The scientists at MSU naturally work together on problems that require interdisciplinary expertise and critical thinking.

“At MSU, our land-grant heritage provides the structure for our approach,” adds Stevenson. “We work together to develop solutions to problems not just for ourselves and our communities, but to transfer that knowledge to help others around the world.”

Water Quality

Improving water quality requires biologists who understand microorganisms in the water, engineers who build systems to purify the water, and social and political scientists to devise and implement policies and political strategies to preserve and maintain water resources.

As an ecologist, Stevenson studies how algae respond to environmental change, pinpointing the specific levels of pollutants that trigger algae blooms. In particular, Stevenson’s research examines the relationship between algae and phosphorus, a dissolved nutrient that is an important regulator of

funded by the U.S. Environmental Protection Agency. Adding phosphorus-based fertilizer to a field will help grow more crops, but the trade-off is these same applied plant nutrients enter the water system and stimulate algal growth in streams and lakes, which can kill fish.

**“Geopolitically,
water is not the “new oil”
it is far more important.
It sustains life.”**

algal growth in lakes and streams.

“As the levels of phosphorus increase, they have a direct effect on the species of algae that can live in habitats and how fast they grow,” says Stevenson. “With phosphorus, there is often a threshold concentration where there is a strong effect on the algae. In natural ecosystems there are many other variables you need to account for when predicting these changes. Our goal is to understand those variables so governments can establish limits on phosphorus, often at these threshold concentrations, and thereby prevent changes in algae you wish to avoid.”

Understanding the levels at which nutrient pollution from fertilizers spur algae growth is an example of fundamental science that’s critical to science-informed public policy and rational economic activity. This is where basic science meets public policy, says Stevenson.

Effects of human activities vary greatly on our different uses of lands and waters within a watershed, so an important consideration becomes the trade-offs among these uses, notes Stevenson, whose research is

“As water researchers at MSU, we are quantifying the many relationships among human activities, pollutants and uses of our land and water,” says Stevenson. “Knowing and understanding trade-offs among these uses will allow us to manage different resources for different uses and thereby have high levels of benefits across a region. Once we fully understand the complexity of ecological systems and the humans in them, we can turn our attention from science to policy and management.”

Understanding Water Flow and Use

With his research team of undergraduate and graduate students, Stevenson also is involved in a project with Jiaguo Qi, director of the Center for Global Change and Earth Observations in the Dept. of Geography, and David Hyndman, a hydrogeologist and chair of the Dept. of Geological Sciences. This interdisciplinary team is examining how different levels of nutrients, climate and land use affect algae in coastal zones of the Great Lakes.

More than 30 years of satellite images and water flow data will be used to characterize the algae in coastal zones. By studying the weather systems that carry nutrients to the coastal zones, they are able to predict the relationships between nutrient flow and algal growth. Qi and Stevenson’s students are advancing our ability to use satellite images to detect the amount and kind of algae in water.

At the same time, Hyndman and his team of hydrology students and post-doctoral researchers are gathering samples and measuring 80 percent of the flow in Lower Peninsula rivers and streams emptying into Lake Michigan and Lake Huron. Along the way they are building an advanced model of water flow, including both surface and ground water, and how that water transports nutrients to streams, rivers and the coastal zones of the Great Lakes.

“By correlating weather and dynamics of nutrient transport to coastal zones with algae bloom, we are learning to predict effects of more frequent droughts and floods that might accompany climate changes,” says Stevenson. “Our interdisciplinary team is building a model that accounts for these variables. We will be able to transfer this tool to other areas of the world and help those people manage their waters to best achieve their desired outcomes.”

The Great Lakes region provides an ideal setting for water research since it is home to 20 percent of the Earth’s supply of surface fresh water. For researchers focused on the Great Lakes, water scarcity is often not a critical issue, but the access to abundant supplies of clean water has provided a tremendous advantage since it has historically provided an emphasis on agriculture and research connecting with the food system.

H2O



Masako Tominaga is a marine geophysicist and the first of 16 faculty hired as part of MSU's water initiative. She is finishing her postdoctoral research at Woods Hole Oceanographic Institution and will join the Dept. of Geological Sciences this summer as an assistant professor. She is pictured here in the Pacific Ocean last November where she was the chief scientist on the 2011 Jurassic Ocean Crust Magnetic Survey which measured the magnetism, bathymetry, gravity and structure of the Jurassic seafloor to investigate the history and nature of the Earth's magnetic field.



*James Tiedje, director,
Center for Microbial Biology*

Viewed from space, the most striking feature of our planet is the water. In both liquid and frozen form, it covers 75 percent of the Earth's surface. It fills the sky with clouds. Water is practically everywhere on Earth, from inside the rocky crust to inside our cells. Of the Earth's 331 million cubic miles of water content, about 96.5 percent is in the global oceans.

Courtesy of NASA





*Dave Hyndman
teaches students how to
measure flow velocity in
the Red Cedar.*



Xiabo Tan



Joan Rose

MSU AgBioResearch, formerly known as Michigan Agricultural Experiment Station, is part of the backbone of water research.

“The connections AgBioResearch has across campus provide a tremendous advantage to leverage the existing research infrastructure to make sure we take advantage of every opportunity to connect with research involving water,” says Steve Pueppke, director of AgBioResearch. “Over the past five decades, MSU has built a strong research infrastructure rooted in food safety and agriculture development, and these link directly to

“(To) have impact we cannot sprinkle across campus but instead must find those trans-disciplinary areas where we can build connections and avoid redundancies,” says Pueppke. The faculty positions are mainly in natural science, social science, engineering and agriculture and natural resources. MSU has already started hiring and will be filling more positions in 2012.

A Network of Campus Programs

MSU has 20 different centers or programs across campus that

The Great Lakes region provides an ideal setting for water research since it is home to 20 percent of the Earth’s supply of surface fresh water.

key issues involving water.”

Pueppke’s institutional knowledge and expertise has put him in the center of a balancing act between dual roles in AgBioResearch and the university’s main research office where he is associate vice president for Research & Graduate Studies. His knowledge of the research being done across campus led him to recently being named the leader of MSU’s research initiative in water. The initiative is an investment in 16 new faculty positions with each position being connected to multiple departments and linked to water research. Pueppke says MSU’s investment into water research is the largest investment for a public university.

support research on the many facets of water research. Several are macroscopic in their approach while others are more targeted. The research partnerships in these are often interconnected to form a robust network of collaboration across disciplines.

At one end of the scale are programs like Michigan Sea Grant—a cooperative program of the University of Michigan and Michigan State University, and part of the a national network administered by the National Oceanic and Atmospheric Administration, or NOAA. Sea Grant conducts research and outreach programs focused on conservation, use and understanding of Michigan’s coastal resources.



Volodymyr Tarabara



*Steve Pueppke,
director, Michigan
Agricultural
Experiment Station*

A more specific program is MSU's Center for Water Sciences—an interdisciplinary program of scientific teams investigating environmental problems facing water ecosystems and related human health concerns. The center is led by Stevenson along with Joan Rose, the Homer Nowlin Endowed Chair for Water Research and an international expert on health-related water microbiology.

Rose's research collaborations at MSU are a major asset in organizing multidisciplinary programs. Rose, a member of the National Academy of Engineering, also serves as director of the Center for Advancing Microbial Risk Assessment and leads the Water Quality, Environmental and Molecular Microbiology Laboratory. Her research involves new molecular methods to track pathogens in water as well as how treatment can produce safe drinking water and how wastewater can be safely reclaimed and reused.

Among the more specialized programs on campus is the Center for Microbial Ecology. Originally started in 1989 as one of the National Science Foundation's first Science and Technology Centers, the MSU Center for Microbial Ecology continues to have global impact on understanding factors that influence the competitiveness, diversity and function of microorganisms in their natural and managed habitats. The center is led by James Tiedje, University Distinguished Professor and member of the National Academy of Science. The center is considered one of the leading microbial ecology programs in the world as hundreds of students and post-doctoral researchers have passed through the labs of the center. The list of alumni is a global "Who's Who" of microbial ecologists, says Professor Walt Esselman, chair of the Dept.

of Microbiology and Molecular Genetics.

"Gathering data to examine the behavior, evolution and functions of the microorganisms in water is a fundamental first step to solving problems in water quality, treatment and infectious disease," says Esselman. "Microbial ecologists are on the front lines and one key is to maintain a network of researchers connecting the various disciplines involved so they are all doing research at the highest level and communicating with researchers outside their core area."

Bioremediation and Purification

Improving water quality means not just changing human activities that affect the water supply, but treating and purifying contaminated water. One solution is to use microorganisms to remove pollutants in the soil, a process referred to as bioremediation, an idea that is new only in its application. Microorganisms are at the core of the processes used to purify waste at most treatment facilities.

MSU scientists are looking for ways to remediate natural systems. Some materials, like toxic heavy metals from industrial applications, are in various contaminated sites and migrate into rivers and aquifers. Gemma Reguera, assistant professor of microbiology, studies a group of bacteria called *Geobacter* and has found that the hair-like protein appendages on the outside of the bacteria have electrical conductivity. These nanowires can perform nature's version of useful "electroplating" with uranium that has polluted bodies of water. Reguera's research has shown how the bacteria's nanowires are able to convert contaminants like radioactive Uranium-6 to Uranium-4, a form of the element which is insoluble and stable,

limiting migration and contamination of adjacent water systems.

Volodymyr Tarabara, associate professor of engineering, is involved in membrane separation processes and advanced materials for water treatment and reuse applications.

Tarabara recently received the Paul L. Busch Award from the Water Environmental Research Foundation and is developing multifunctional membranes for a range of water purification processes including the reduction or removal of halogens, nitrogen containing compounds and salt. "The main idea is to use functional nanoparticles and embed them into membrane materials in the form of hierarchical architectures," says Tarabara. "We believe we can control membrane structure and additional functions through manipulations at different levels in the hierarchy."

Infectious Organisms

In addition to containment and cleanup techniques, understanding how infectious organisms and their hosts spread in water is another aspect of water research at MSU.

"While we see new infectious diseases occurring, we also continue to see malaria as a growing problem as we've tried different approaches and it keeps coming back," adds Esselman. "Before we can find an ultimate solution for malaria, we must fully understand the malaria parasite and the mosquitoes that spread the disease."

MSU scientists like Edward "Ned" Walker, professor of microbiology, and Zhiyong Xi, assistant professor of entomology, are in biological warfare against diseases like West Nile virus, malaria and Eastern Equine Encephalitis, and are studying the water that breeds the mosquitos that spread these diseases.

As part of a \$9.1 million grant from the National Institutes of Health to combat malaria in the African nation of Malawi, Walker and Xi are looking at a number of specific issues, including their watery larval habitats. The ecological knowledge gained from the malaria research in Malawi can also be transferred to West Nile virus research in Michigan, says Esselman. And like so many of the complexities surrounding water, studying mosquito habitats means dealing with water quality and standing water. This connects directly with water management, and again, is an intersection where science connects with the application of policy.

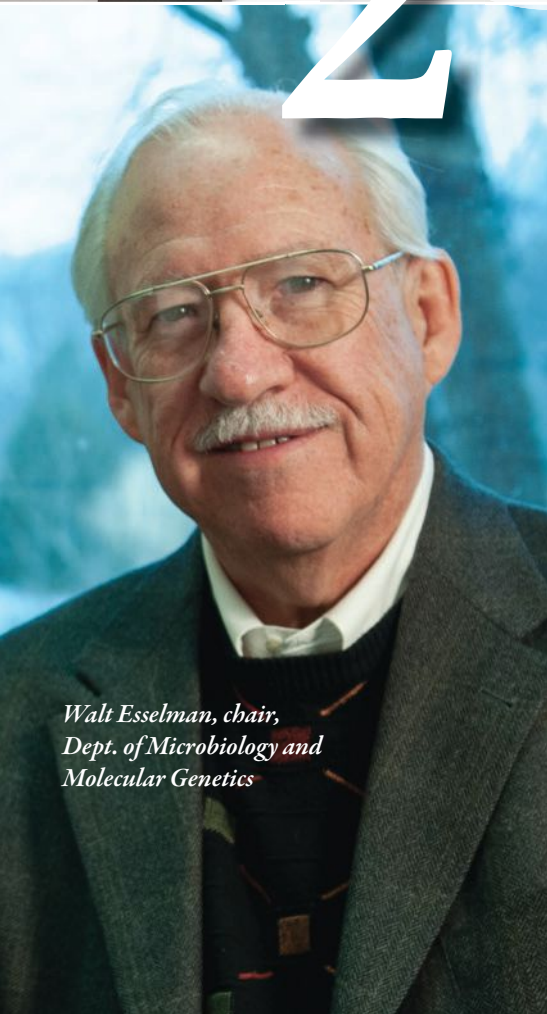
"Applying basic ecology and fundamental science is being done at all levels of research related to water," says Stevenson. "The tough part is deciding upon the trade-offs that exist, as there are benefits, costs and risks to every decision. One key is to transfer the science and understanding to policy so decisions can be made variably to account for water use, location and any number of trade-offs."

The formula for developing solutions is simple: a multidisciplinary network of researchers working to solve major problems. It is a land-grant formula inherent in MSU researchers and the reason Michigan State is a global leader in research and education. It is a formula so intrinsic to all Spartans that it seems almost as simple as a molecule with two hydrogen atoms and one oxygen atom. 🍷

► *Michael Steger, MA '09, is director of integrated marketing and advancement relations for MSU's College of Natural Science. Mike and his wife Sheila, '93, are members of the MSU Presidents Club.*



*Jan Stevenson, co-director,
MSU Center for Water Sciences*



*Walt Esselman, chair,
Dept. of Microbiology and
Molecular Genetics*



Gemma Reguera



MSU Water-Related Centers and Programs

Currently many programs and centers at MSU are conducting research that is related to water as a resource. Visit ns.msu.edu/water for more information.

1. Anaerobic Digestion Research and Education Center
2. Biogeochemistry Environmental Research Initiative
3. Center for Advancing Microbial Risk Assessment
4. Center for Global Change and Earth Observations
5. Center for Integrative Toxicology
6. Center for Microbial Ecology
7. Center for Water Sciences
8. Environmental Science and Policy Program
9. Great Lakes Regional Integrated Sciences and Assessments Center
10. Institute of Public Utilities
11. Institute of Water Research
12. Invasive Species Initiative
13. Kellogg Biological Station
14. Land Policy Institute
15. Michigan Sea Grant
16. MSU Watershed Action Through Education and Research
17. Remote Sensing & GIS Research and Outreach Services
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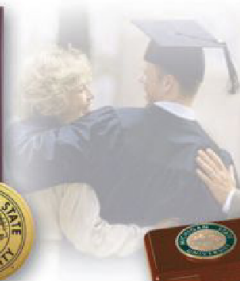
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BRICK **AND MORTAR** A CORNERSTONE **GIFTS:**

ONE OF OUR PAST AND FUTURE

Beaumont Tower



The Secchia Center

By Robert Bao

A number of MSU buildings, probably more than might be commonly believed, were made possible by private gifts from alumni and friends.

New campus buildings always create a buzz, not just adding to the campus skyline but also enhancing MSU's teaching and research missions. The importance of private gifts for such capital projects is a growing part of MSU's formula for success.

Typically new construction is funded by a combination of state or federal support, bond sales and private support. During John Hannah's presidency, when multiple, large-scale residential complexes were built quickly, there was more reliance on the traditional means, public support and bonds. But private giving for bricks and mortar has always been a part of the equation, and perhaps more so than ever today.

Indeed, a campus map showing the buildings that were built either entirely from private support or with critical lead gifts would surprise many Spartans whose ties to MSU date back to the Hannah years.

A gift from automotive pioneer Ransom E. Olds enabled MSU to rebuild Olds Hall, which housed MSU's engineering program, after the 1916 fire (left).

University Archives and Historical Collections



“When you look around the MSU campus, there are many visible symbols of philanthropy,” says Bob Groves, vice president for University Advancement. “Michigan State has a much richer tradition of philanthropy than many people are aware. When *The Campaign for MSU* came to a close in 2007, I think the awareness of the importance of philanthropy for keeping MSU at the forefront of teaching and research was heightened.

“Over the past several decades, the State has not provided a predictable pattern of capital support. The generous partnership of our alumni, donors and friends gives us the capacity to continue to press forward with new initiatives to keep our teaching and research programs competitive nationally and internationally at a time when innovation and smart program growth might otherwise be out of reach.”

Bill Latta, MSU assistant vice president for finance and operations, adds that private support helps MSU attain its vision for the future.

“Private support for bricks and mortar is very important because it enables us to achieve the visions that we have for the future,” says Latta. “In many cases, gifts make the difference between holding course and going after your dreams.”

The tradition of private support for buildings at MSU actually dates back to 1917, when Ransom E. Olds gave MSU \$100,000 to rebuild the Engineering Building, which had

burned down in 1916. Renamed Olds Hall, it still stands today next to the Hannah Administration Building. The generous gift by the automobile pioneer essentially saved MSU's engineering program and prevented its attempted takeover by the University of Michigan.

In 1925, the MSU Union opened thanks partly to donations by many alumni, who after a lengthy campaign spearheaded by the MSU Alumni Association pledged about \$200,000. In 1923, to help defray the costs, alumni, faculty members, trustees and students—including football players—teamed up during “Excavation Week” to dig the basement of the proposed student and activities center. Eventually the state stepped in with \$300,000 to allow for the building's construction by Pond and Pond of Chicago, a renowned firm that also built the union buildings at the University of Michigan and Purdue University. Later the East wing was added, and after World War II the South wing was built, essentially completing what is now the MSU Union.

In 1928, Beaumont Tower was constructed on the site of Old College Hall, the nation's first facility devoted to the teaching of agriculture. The tower was made possible by a gift from alumnus John W. Beaumont, Class of 1888, and his wife Alice M. Beaumont. Many campus traditions revolve around the 104-ft. tower and its 49 bells. The structure today is one of MSU's most iconic images, along with The Spartan statue.

To save money, MSU alumni, faculty and students teamed up during “Excavation Week” in 1923 to dig the basement of what would become the MSU Union.

University Archives and Historical Collections



In 1952, thanks in large part to alumni donations, the Alumni Memorial Chapel opened as a non-denominational place of worship. MSU students had been without a religious chapel since 1919, when Old College Hall—which had a chapel—collapsed. The new chapel on the banks of the Red Cedar River honored all MSU students who had died while serving the country. Interestingly, the structure features stones from 31 European cathedrals that were bombed during World War II—including Westminster Abbey and St. Paul’s Cathedral in London. Stones taken from the White House in Washington, D.C. are also embedded in the chapel.

In 1958, Forest Akers Golf Course was built on land donated by Detroit alumnus and former Dodge executive Forest Akers, who had served as university trustee for 18 years (see *MSU Moments*, Winter 2012, p. 7).

These examples of private support were exceptional cases that contrast with the building boom during the John A. Hannah presidency, when massive residential hall complexes went up and the campus enrollment grew from 6,000 to more than 40,000. Most of the buildings were financed via bond sales, often special arrangements between MSU and the state, which had the authority to issue bonds. It was common in the 1950s and 1960s to see new buildings with signs noting that taxpayer dollars were not expended in the construction. When Hannah left MSU in 1969, it

was joked that the cement mixers kept churning for another month in his honor.

Since then, however, the amount and extent of private support for new building on campus has risen dramatically. Take a look at a campus map showing private-support buildings in red (see page 39). Alumni who have not visited the MSU campus for a while are usually stunned by the new buildings. Additionally, philanthropic support has often given new life to buildings and thus programs through extensive expansions and renovations.

In more recent decades, MSU completed the Clifton and Dolores Wharton Center for Performing Arts in 1982—a dramatic addition to campus education and entertainment that was made possible partly by generous alumni support. In 2008, the center gained a new, glass façade and its interior space was expanded by 24,000 square feet, with another 9,000 square feet of existing space renovated. The changes in the facility and expansion of the center’s programs, particularly the creation of an education institute, were made possible by approximately \$9.2 million in private gifts (see cover story, Winter 2010).

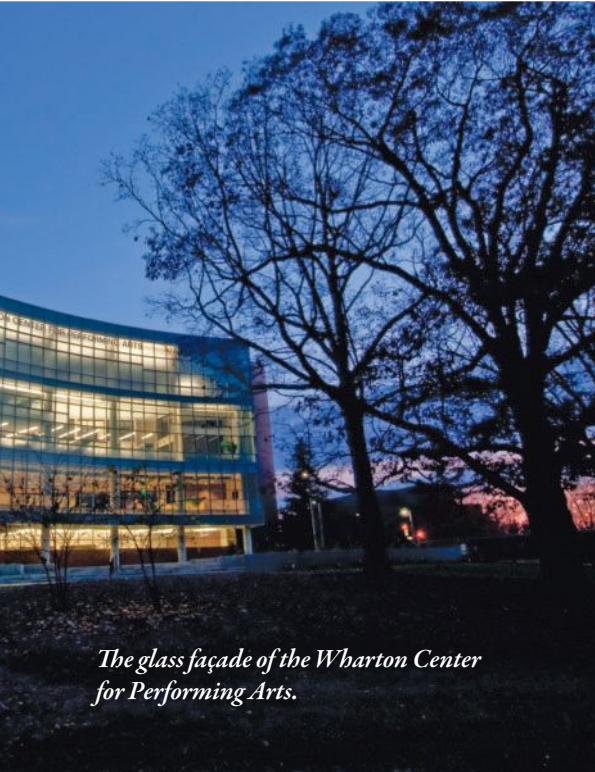
In 1993, the North Business Complex was completed. The project was the centerpiece of the *MSU 2000: Access to Opportunity* capital campaign, according to Ben Kilpela, researcher and writer for University Development.

Another centerpiece of that capital campaign was MSU’s Horticulture Demonstration Gardens and the 4-H Chil-

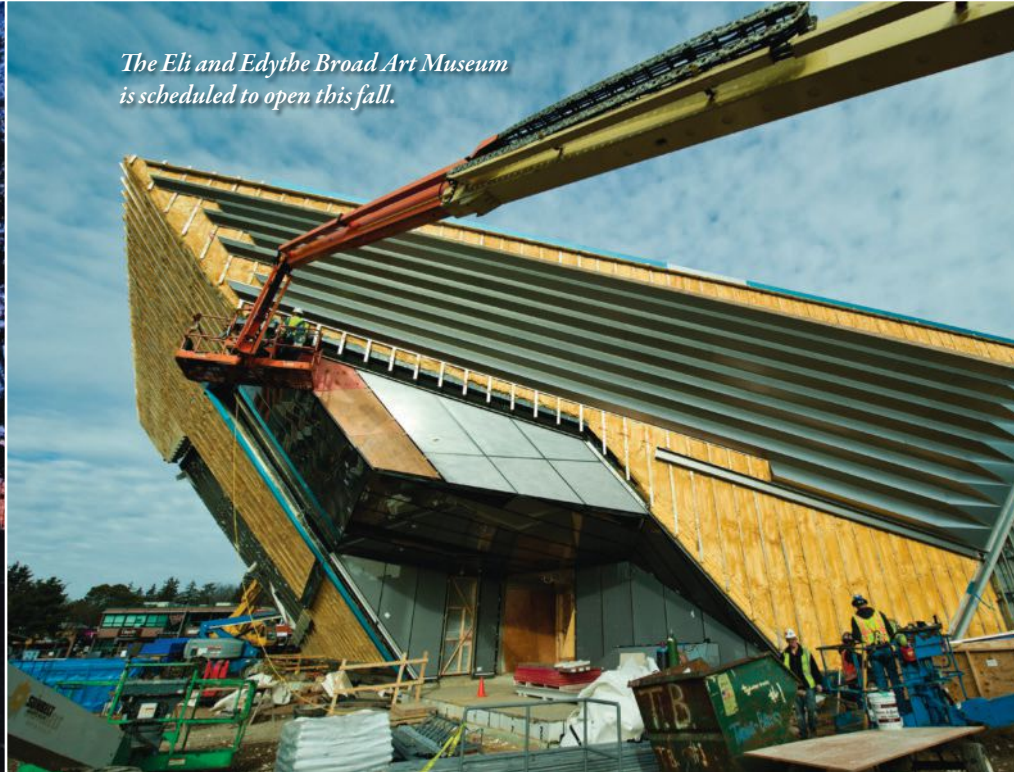


The atrium of the Biomedical and Physical Sciences Facility.

“The generous partnership of our alumni, donors and friends (allows us) to press forward with new initiatives to keep our teaching and research programs competitive nationally and internationally.”



The glass façade of the Wharton Center for Performing Arts.



The Eli and Edythe Broad Art Museum is scheduled to open this fall.

dren's Garden, which occupies a space near the Plant and Soil Sciences Building and attracts thousands of visitors a year. The horticulture garden was previously located in north campus behind the Student Services Building, and its relocation to south campus met with some initial resistance by those who did not want the location changed. These projects were helped significantly by private support.

Eustace-Cole Hall was first built in 1888 as the nation's first stand-alone Horticultural Laboratory. A \$1.5 million gift in 1998 by Jeffrey and Kathryn Cole made possible the building's renovation as the home of MSU's Honors College in the heart of the so-called "Lab Row."

The McPhail Equine Performance Center, a major advancement in veterinary medicine, opened in 2000. The center was made possible entirely through private support. Much progress has been made in research related to the performance of equine athletes, as the center boasts state-of-the-art technology such as a motion analysis system, AMTI force plate, Noraxon EMG system, Pliance saddle pressure pad and other custom equipment.

Some 40 years in the making, MSU's Biomedical and Physical Sciences Facility opened in 2001 after receiving a major amount in private support. It is MSU's largest academic building, connecting both the Chemistry and Biochemistry buildings, and represents a major advancement in the quality and "connectivity" of science facilities,

including research and teaching laboratories. The building now houses Microbiology & Molecular Genetics, Physics, and Physiology, as well as a remote observation room for the SOAR telescope in Chile.

The James B. Henry Center for Executive Development opened in 2001 thanks to more than \$11 million in private support. In addition to hosting business meetings and retreats, the 96,000 square-foot building houses the Eli Broad Graduate School of Management's Executive Development Programs and provides a learning environment for several Broad College master's degree programs, including the Weekend MBA and the MS Supply Chain Management.

In 2003, the International Center completed its 10,000 square-foot expansion thanks to \$3.6 million in private support. An endowment to MSU by Delia Koo made possible the third-floor addition, providing additional classroom and office space for MSU international programs. The center's academic wing has been named the Delia Koo International Academic Center.

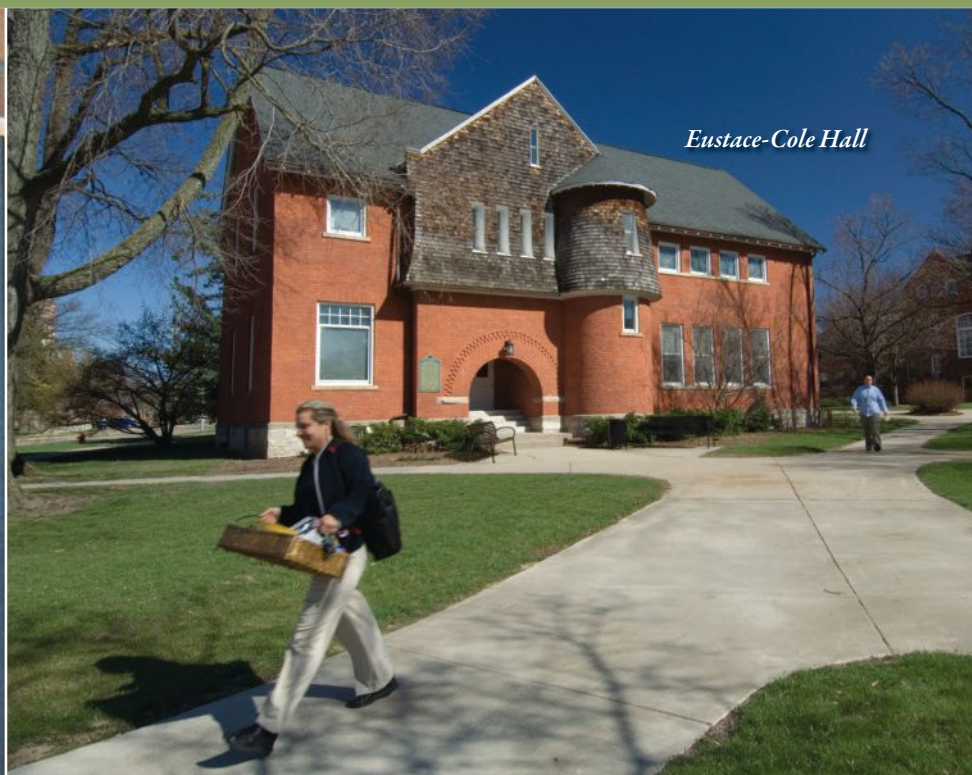
In 2006, Lyman Briggs College in Holmes Hall was renovated thanks to more than \$2.2 million in private support—adding new teaching labs for biology, chemistry and physics.

In recent years there has been significant private support for facilities in athletics—the Clara Bell Smith Student-Athlete Academic Center (1998), the Alfred

The McPhail Equine Performance Center



Eustace-Cole Hall



Berkowitz Basketball Complex (2001), the Skandalaris Football Center (2008), the Demmer Family Hall of History (2008) in the Skandalaris Center, the DeMartin Soccer Complex (2008), the McLane Baseball Stadium (2009) and the Secchia Stadium for softball (2011). Construction of the Pentecost Plaza (2012) at the entrance of Old College Field is set to begin this spring.

In the last couple of years, major gifts made possible some dramatic new and transformative buildings. In 2010 the College of Human Medicine's Secchia Center opened in Grand Rapids, thanks to approximately \$50 million in private support (see cover story, Fall 2010). The new headquarters for MSU's College of Human Medicine boasts state-of-the-art laboratories, classrooms and learning spaces. MSU and partners look forward to breakthroughs in future collaborative research.

The John and Marnie Demmer Shooting Sports Education and Training Center was funded almost entirely by private support, led by a \$1.5 million gift from the Demmer family. The \$3.8 million center opened to the public in 2009 as a world-class training and education facility boasting the latest in shooting range technology.

Nearing completion is the Eli and Edythe Broad Art Museum, due to open in the fall of 2012. This dramatic building, designed by world renowned architect Zaha Hadid, was made possible by more than \$35 million in private sup-

port—including the largest private gift in the university's history. MSU officials expect the new structure to have a transformative impact on the cultural life and outreach of the university and greater Lansing community.

The Bott Building for Nursing Education and Research, made possible by a \$7 million commitment from the Timothy and Bernadette Marquez Foundation, a \$7.45 million grant from the National Institutes of Health-Center for Research Resources, and the generosity of more than 1,000 benefactors, will create a highly visible presence for the College of Nursing. The new three-story, 50,000 square-foot building, scheduled to open in 2012, will link to the Life Sciences Building.

The Bott Building will provide expanded space for students and faculty, along with two stories dedicated to nursing research. It will also be the first on campus to use a ground source geothermal energy system to heat the building in the winter and cool the building in the summer, a first in energy conservation.

While raising money and building facilities has always been important, the key to MSU's success lies in the impact those gifts have on MSU, the state and the world. 🍀

Note:

Ben Kilpela, researcher and writer for University Development, contributed to the research for this article. —Editor.

North Business Complex



The Demmer Family Hall of History in the Skandalaris Center.

The Face of the Michigan State University Campus Today

The red dots indicate the MSU buildings that were made possible by philanthropy.

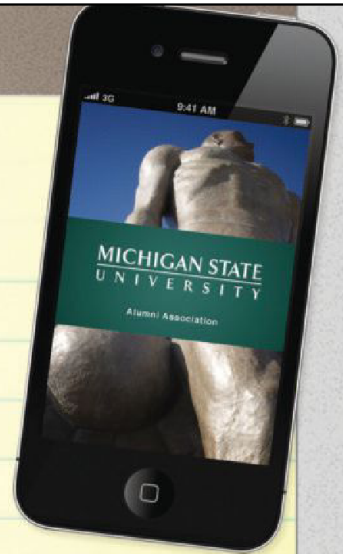
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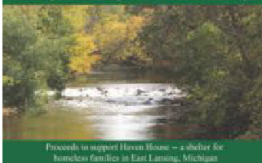
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PRIMA CIVITAS FOUNDATION: A VISIONARY PLAN *for* ECONOMIC DEVELOPMENT

By Robert Bao

**MSU's vision created one of the nation's most
unique economic development solutions—
an organization with the cryptic name of
“Prima Civitas Foundation.”**

In recent years, one of MSU's most important emerging missions is to help the state of Michigan in its economic recovery. It's no secret that the state economy has taken a major hit during the prolonged national recession. In a visionary move by President Lou Anna K. Simon, MSU founded a nonprofit organization in 2005 to quickly marshal university resources toward this goal.

The organization—christened Prima Civitas (Latin for “First State” or “First Nation”) Foundation (PCF)—is now beginning to hum.

“President Simon envisioned a nimble and unique economic development enterprise that could quickly and effectively address economic issues critical to Michigan,” says Steve Webster, CEO of the Prima Civitas Foundation. “Call it a world-grant or 21st-century land-grant approach. By any description, it's a unique organization that is paying dividends to Michigan.”

Indeed, one project launched by PCF has the potential to pay huge dividends. It involves creating a consortium of Michigan companies that would participate in building some 100,000 homes in Iraq. This high-impact project is estimated to exceed \$8 billion, with the housing component alone exceeding \$5.5 billion. That could translate into a direct return to Michigan of some \$1.5 billion in goods and services. It is one of many initiatives that PCF is spearheading.

"This is really one of the most creative responses by a state university anywhere," says Webster. "Not enough has been said about the vision and sheer boldness of this move."

Although independent from the university, PCF operates well within the MSU knowledge orbit. PCF receives funding from various sources, including the MSU Foundation and the C.S. Mott Foundation.

Webster, '75 (James Madison), MBA '78, served MSU 24 years, rising to vice president for Governmental Affairs. Before that, he worked 14 years in state government, rising to associate director of the House Fiscal Agency. His more than three decades in the world of public policy has given him the contacts and experience to lead PCF. Webster believes that fundamental, transformational measures are needed to get Michigan leading again in the global economy. He's been known to say, "When the plane is heading into the ground, a trimming of the rudders simply moves the crash site."

Joining Webster is a full-time staff that includes four MSU alumni and two current students. PCF also engages student interns and externs across multiple disciplines and colleges, including the MSU College of Law, James Madison College, Eli Broad College of Business, and the Colleges of Social Science and Arts and Letters. David Hollister, '64,

'69, longtime state legislator, former Lansing mayor and founding PCF president and CEO, now serves as PCF's senior vice president of strategic initiatives.

Hollister remembers how his involvement with PCF came about. "While attending one of the Boldness by Design forums, President Simon asked if I would consider becoming PCF's president and CEO," he recalls. "At the time I was director of Michigan's Dept. of Labor and Economic Growth with a staff of 4,200 and a budget of \$1.9 billion, but I quickly agreed because her vision was so clear, her commitment so solid, and the potential of engaging university assets and resources so powerful that I would not pass up the opportunity."

"I can say unequivocally that PCF has furthered the goal of helping MSU become a world-grant university and significantly and positively impacted the economic future of Michigan."

Webster notes that PCF has adopted an innovative strategy for handling projects. "We're unique in many ways," says Webster. "The simple, streamlined foci of our business model is one way in which we are different from other organizations across the United States."

Webster explains that PCF's model for each project is to first develop an intermediary organization of "stakeholders." This group would then determine and deliver economic development solutions for Michigan companies and communities, and help "aggregate and mobilize knowledge economy assets" anchored by MSU.



“This is really one of the most creative responses by a state university anywhere.

Not enough has been said about the vision and sheer boldness of this move.”

The artists’ renderings below show some proposed buildings, in the massive Iraq development project.



“What is essential to this model are the extraordinary global assets of Michigan State University,” says Webster. “We are building on over 60 years of pioneering and sophisticated international programming. MSU’s global knowledge assets, including nearly 500,000 living alumni, provide international linkages that offer strong development for Michigan. PCF helps realize the value of these assets by joining strategic partners and developing action plans that translate this value into jobs and income in Michigan.”

All of that sounds good in theory. So are there any specific examples of this work? The answer is that there are many examples:

Michigan-Based International Development

PCF initiated big-impact, jobs-generating projects in 2011 including the development of the Great Lakes International Trade and Transportation Hub (GLITTH). An estimated 100,000-plus jobs can be created in Michigan via the implementation of proposals developed by GLITTH. Canadian and U.S. officials as well as leaders from Nova Scotia, Quebec, Ontario, Michigan, Ohio and Indiana, teamed up with MSU and Canadian university partners to develop an action plan



for the build-out of the transportation, distribution and logistics (TDL) sector along the trade corridors initiating at the Port of Halifax and terminating in the U.S.

In a related TDL project, PCF and strategic partners created an innovative region-building effort joining over 30 local communities and four Michigan counties stretching from Sarnia, Ontario, west through Shiawassee County (East of Lansing). The goal is to create a logistics hub and industry sector along the I-69 and I-75 highway and rail freight corridors. This ‘sub-hub’ will support the GLITTH efforts and has the potential to become the largest regional development corporation of its type in Michigan in over 30 years. This strategic job creating hub is known as Next Michigan Development Corporation, and it will speed the recovery of the region hit the hardest nationally by job-loss in the last 20 years.

“The War for Talent”

Many of Michigan’s leading industry sectors are currently experiencing rapid growth while also trying to respond to cascading talent gaps. In Michigan, there are approximately 500,000 unemployed workers and 70,000 unfilled positions at any given time; yet too often skilled workers and employers struggle to make connections. These employment gaps feed the “War for Talent” where companies and businesses vie for a skilled and tech-savvy workforce to compete and prosper.

In 2011, PCF collaborated with strategic partners to roll out a Talent Action Plan and have subsequently created a Talent Team from these partnerships.





Sam Al-Araji

“The Prima Civitas Foundation . . . will continue to grow jobs and income in Michigan via large-scale global competition. And this is happening at precisely the time it is most needed.”

The focus is clear: assist companies in winning the “War for Talent” by customizing talent recruitment and training programs to meet the specific needs of a company or community. The Talent Team will proactively construct a talent ‘pipeline’ to fill long-term needs for sustainable employment growth.

Developing Youth Entrepreneurs

2011 also saw PCF continue its partnership with the C.S. Mott Foundation via the promotion of entrepreneurship to two underserved—yet critically important—groups, K-12 and college students. Unlocking the creative potential of students has led to small business creation in Michigan and the development of the ‘mindset’ that one can “create” a career.

Restoring Flint, Michigan

Central to PCF programming is a core commitment to the Flint/Genesee County region of Michigan. PCF is partnering with the Genesee Regional Chamber of Commerce, MSU, local government leaders and many other enterprises like the Flint Area Reinvestment Office to speed the return of this proud, currently struggling economic region. This region like no other in the United States has suffered the effects of global competition and economic dislocation for over a generation. PCF has created and partnered with many regional organizations to bring knowledge economy assets to assist in this region’s economic turnaround.

Iraq Housing Development

All PCF initiatives have paved the way for the Michigan Iraq Consortium for Housing Development (MICH Development). The MICH Development project has the potential to produce extraordinary benefits for Michigan companies, and best illustrates the unique PCF business model in action.

The massive project involves building a “neighborhood” of 100,000 homes—with the necessary urban infrastructure—at a location on the outskirts of Baghdad. As proposed, this city-scaled project is estimated to exceed \$8 billion, with the housing component alone exceeding \$5.5 billion. An estimated \$1.5 billion would return

to Michigan in the form of exported goods and services from Michigan based companies. At the center of this PCF project is Sami Al-Araji, ’67, PhD ’73, chair of the National Investment Commission (NIC) of the Republic of Iraq. Al-Araji is charged with rebuilding his country’s infrastructure, including housing, via foreign investment. In 2008 and again in 2010 Al-Araji visited MSU and extended an invitation to Michigan-based businesses to submit proposals to develop housing for middle class families in Iraq.

Following its business model, PCF has created an intermediary group of stakeholders, including Michigan businesses and economic development partners like the Michigan Economic Development Corporation, and submitted an urban development plan to the NIC. A Memorandum Of Understanding was signed with Al-Araji and the NIC in November 2011, after a week of reviews and negotiations in Baghdad.

This big-impact project builds upon “knowledge assets” developed by MSU well over 40 years ago. In innovative ways, the project is teaming Michigan companies, generating export revenues and jobs in Michigan, and in true land-grant fashion, working to stabilize the Republic of Iraq by supplying new housing to a country that has had no significant investment in housing construction for over 30 years.

The MICH Development project will rely predominantly on a supply chain of Michigan-based companies, and of course significant MSU assets found locally and globally. Perhaps as important, the MICH Development project follows a business model that PCF can replicate in other countries.

“The forward thinking and groundbreaking vision of President Simon when creating the Prima Civitas Foundation will continue to grow jobs and income in Michigan via large-scale global competition,” sums up Webster. “And this is happening at precisely the time it is most needed.”

☛ To learn more about the MICH Development project, or any of the programs of the Prima Civitas Foundation, visit primacivitas.org. Follow PCF on Twitter and friend them on Facebook (search “PrimaCivitas”).



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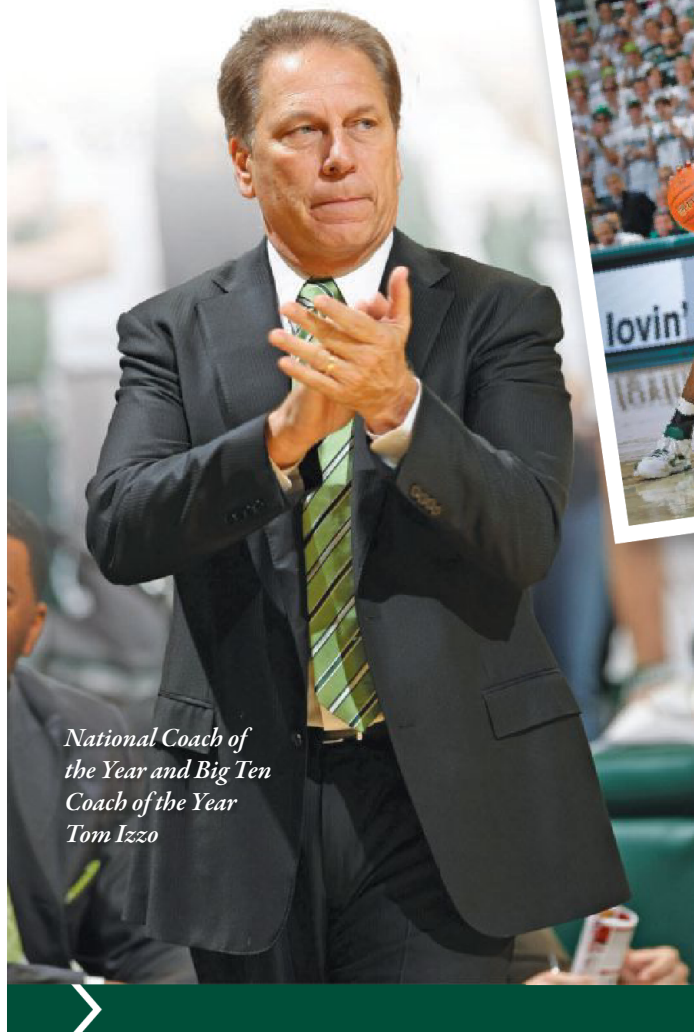
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SPORTS



*National Coach of the Year and Big Ten Coach of the Year
Tom Izzo*

MEN'S HOOPS EARNS 7TH TITLE IN IZZO ERA

By Robert Bao

In another memorable season for coach Tom Izzo, the unranked, youthful Spartan cagers coalesced into a championship unit after a zero-for-two start.

Tom Izzo's best teams usually gel down the season's stretch. They tend to become more cohesive on defense, more relentless on the boards and execute with more precision on offense. Most importantly, they win.

One national analyst calls it "the Izzo factor," which he often invokes to explain why his picks

in the NCAA tournament lost to MSU.

And so it went, again, in 2011-12. With two games still left in the regular season, MSU had clinched a share of the Big Ten title—Izzo's seventh as head coach.

It was a remarkable achievement for a team that entered the

season unranked. MSU faced the departure of two senior stars and the premature loss of four players—including star forward Delvon Roe, who retired from basketball of chronic knee injuries. MSU had no surefire NBA prospects. Many experts did not think it would be easy for Izzo to initiate four newcomers into his system—freshmen Branden Dawson, Brandan Kearney and Travis Trice, and Valparaiso transfer Brandon Wood.

The team started 0-2, losing to No. 1 North Carolina aboard the USS Carl Vinson and to No. 6 Duke in Madison Square Garden. Not afraid to face power teams, Izzo merely chalked off these losses as lessons for a young team.

But then MSU managed a surprising 15 straight wins—including victories at No. 23 Gonzaga (away) and against Florida State, which eventually made the Top 20. With every game, one could see small steps toward improvement.

"In the preseason, our realistic goal was to make constant improvement," says Izzo. "As we grew, we realized we could be better. We're definitely reassessing. There are bigger things that we can achieve."



Big Ten Player of the Year Draymond Green

After mid-season hiccups at Illinois, Northwestern and Michigan, MSU began an impressive surge that saw double-digit wins over No. 23 Michigan, No. 3 Ohio State in Columbus and No. 15 Wisconsin. MSU led the nation with 6 wins over ranked teams—three of them road wins—and 7 wins against the RPI Top 25. According to ESPN.com, MSU ranked No. 2 in strength of schedule. The Spartans climbed to No. 5 in the Coaches poll while ESPN Bracketologist Joe Lunardi penciled MSU in as a No. 1 seed in the NCAA tournament.

How did MSU leap from unranked to a potential top seed? With defense and rebounding, and great senior leadership. At season's end, the Spartans were holding opponents to a .375 shooting percentage, third-best in the nation and the best in the Izzo era. MSU was also enjoying a +10 rebounding margin, third-best in the nation and considerably better than last year's +4 margin.

Player chemistry helped. About 3 of every 5 MSU baskets involved an assist. Even prolific scorers like sophomore guard Keith Appling often passed up shots so a teammate could take a better shot.

"It's a lot of fun being a part of this team," says Draymond "Day Day" Green. "We want to be with each other. We want to come to practice."

As ESPN analyst Sean Farnham put it, "MSU is everything it was not last year—the chemistry is better, they're tougher and (they're) beasts on the boards. Tom Izzo consistently gets his team to elevate their play come March."

The catalyst for this late surge was senior forward Draymond Green, who was not only averaging over 15 points, 10 rebounds and three assists a game but also providing on-court leadership in the manner of Mateen Cleaves

and Travis Walton. Green could be nicknamed a “Master of All Trades.” Before the conference tournament, Green was already third in school history with 105 blocks, fourth in career rebounds (1,000), and fifth in career steals (163). He joined Johnny Green and Greg Kelser as the only Spartans in history to boast more than 1,000 career points and rebounds. At Gonzaga, he scored an astonishing 34 points. Green earned consensus Big Ten Player of the Year honors and was also mentioned in national POY discussions.

Fellow senior Austin Thornton emerged as a role player extraordi-

naire; the former walk-on actually broke into the starting lineup in February.

As is typical with Izzo teams, different players stepped up during the season. Seven different players managed to lead the team in scoring in a game.

Prolific scorer Appling learned to play point guard and to distribute the ball. He spearheaded MSU’s 15-0 lead in fast-break points over the Badgers at the Breslin Center, and his assist-to-turnover ratio improved as the season unfolded. Derrick Nix, slimmer and trimmer, became a reliable scorer in the paint

along with Adreian Payne, who scored 15 points in the upset in Columbus while helping contain All-American Jared Sullinger. Talented freshman Dawson showcased his offensive rebounding prowess and the skills and athleticism that made him a McDonald’s All-American—notably with a windmill jam at Purdue. Transfer senior Wood meshed well and provided needed firepower; his 13 points at Minnesota helped prevent a ruinous upset. Redshirt freshmen Alex Gauna and Russell Byrd, Kearney and Trice provided valuable minutes as well.

Helping Izzo as assistants are Dwayne Stephens, Dane Fife and Mike Garland. Izzo says that four months ago, he would not have believed that this year’s team would contend for a conference title, much less for a top NCAA seed. But the dramatic surge earned him his third Big Ten Coach of Year honors. He also earned his 400th victory—which came against Minnesota at home—in addition to having made an amazing six Final Fours in the last 13 seasons.

In March, knowledgeable Spartans expect the Izzo factor to emerge. 🏀



Lykendra Johnson



Porsche Poole



Suzy Merchant

WOMEN’S BASKETBALL FIGHTS TO THE FINISH

The defending Big Ten champions won 7 of their last 8 regular season games to finish in a tie for second place and to return to the NCAA tournament.

The MSU women’s basketball finished second in the Big Ten regular season, earning a 19-10 record overall, 11-5 in the conference. Highlights for head coach Suzy Merchant included sweeps of No. 11 Penn State and Michigan and wins over No. 17 Purdue and No. 23 Nebraska.

MSU made a late-season statement by winning 7 of its last 8 games, including a rousing 67-52 overtime win over Purdue before a home crowd of 13,424.



Women's basketball continued...

The February surge was paced by two seniors, guard Porsche Poole and center Lykendra Johnson. Poole, who averaged over 13 points a game while shooting over 46 percent for the season, was hitting on all cylinders in the final stretch and averaging 20 points and nearly 5 assists a game. Last year's Big Ten Defensive Player of the Year, Johnson averaged over 10 points and 8 rebounds a game and became one of only five Big Ten players in history to surpass 1,000 points, 900 rebounds, 200 steals and 100 blocks. She ranked second in MSU history in career rebounds with 992 at the end of the regular season. Johnson has been called the "heart and soul" of the team by Merchant.

MSU's season began with mixed results. The Spartans played exceptionally well in stretches, but suffered five away losses in November and December. For the second straight year, 6-7 Center Madison Williams, a MacDonald's All-American, had a season-ending ACL injury early in the season.

In the conference season, the Spartans began with four straight wins—including an upset of eventual champions Penn State in State College. But MSU then suffered a four-game losing streak. Down the stretch, however, MSU regained the winning touch, winning 7 of the next 8 games, stubbing their toes only at Iowa.

Kiana Johnson, freshman point guard from Chicago, emerged as a floor leader and at season's end was averaging a 2.0 assist to turnover ratio—the second best in the nation for freshmen. "We have to have her at the point just because of her decision making and her ability to direct the team," explains Merchant.

Many other Spartans contributed this season. Senior guard Taylor Alton was MSU's leading three-point threat; she made more than 100 treys in her career, about half of them this season. Sophomore wing Klarissa Bell was able to crack the starting lineup late in the season, and became a productive force—making timely treys and key baskets down the stretch. Freshman forward Becca Mills was the first Spartan to win a Big Ten Freshman of the Week award. Key reserves included Annalise Pickrel, Courtney Schiffauer and Jasmine Thomas. Freshman center Jasmine Hines provided some solid inside play.

MSU averaged 7,505 per game in attendance, a record besting last year's 7,388 average. The attendance at the Breslin Center ranked second best in the conference and ninth best in the nation. Helping Merchant were assistants Shane Clipfell, Tempie Brown and McKell Copeland. In the past four seasons, MSU has produced 15 All-Big Ten selections, best in the league. For the tenth straight season, MSU mustered double-digit Big Ten wins. 🏀

Courtesy of MSU Athletic Communications



ICE HOCKEY

RESURGENCE—It did not take long for new head coach Tom Anastos to begin to revitalize MSU's ice hockey program. For the first time in years, some games were near-sellouts. So is the team's competitiveness and national ranking, which rose as high as 13th in the USCHO poll late in the season. Junior Korey Krug became the first defenseman in 25 seasons to win the CCHA scoring title—notching 29 points, with 11 goals. "That's an incredible feat," notes Anastos. Goalie Will Yanakeff performed at a high level, stopping the puck at a .927 clip with a 2.32 GAA. The icers are clearly taking to the coaching from assistants Kelly Miller and Tom Newton, and goalie coach Mike Gilmore, as they finished strong to notch a 19-13-4 record (14-11-3-2 in the CCHA) along with a bye in the league playoffs.



Spartans trailed 16-0 at halftime but came back strong. Members of the senior class earned their 37th career win, an all-time MSU record. Seniors included quarterback Kirk Cousins, guard Joel Foreman, tight end Brian Linthicum, full back Todd Anderson, safety Trenton Robinson, defensive tackles Kevin Pickleman and Jonathan Strayhorn, and wide receivers B.J. Cunningham, Keshawn Martin and Keith Nichol.



THE BOSS RULES—Big Ten baseball coaches voted MSU as the preseason favorites to win

OUTBACK BOWL WIN—MSU's 33-30 triple overtime win over Georgia at the 2012 Outback Bowl marked its first bowl win since 2001 and Dantonio's first in five tries at MSU. The

this year's championship. Fresh off winning its first Big Ten regular-season title in 32 years last season, the MSU baseball team was the top pick, followed by Purdue at No. 2. MSU returns

Rey Del Rio/MSU Athletic Communications

25 players from last year's squad, including Torsten Boss, Tony Bucciferro and Ryan Jones—all first-team All-Big Ten honorees last season. Boss earned preseason

All-America accolades from Louisville Slugger. The Spartans are led by Jake Boss Jr. (no relation to Torsten), the 2011 Big Ten Coach of the Year.

organizations. He holds MSU records for passing touchdowns (65), completions (696) and his career completion rate (64 percent).



MAGIC MAKES \$1 MILLION GIFT—On the heels of a \$1 million gift to MSU athletics by Tom Izzo and his family, Earvin “Magic” Johnson, who served as MSU honorary captain at the Carrier Classic basketball game, has donated \$1 million to MSU athletics. Chuck Sleeper, director of the Spartan Fund, notes that both Izzo and Magic have been very similar in terms of motivation and also in how they plan to help MSU athletics and MSU athletes. Sleeper adds that Magic’s gift will go to an endowed basketball scholarship and to the North End-Zone Facility. Magic has also announced that his TV network, Aspire, will debut on June 30. “I wanted a vehicle to show positive images and to have stories written, produced and directed by African Americans for our community,” says Magic. “Aspire—that’s how I’ve been leading my life.”

LOWES SENIOR CLASS AWARD—Quarterback Kirk Cousins (middle with Mark Hollis and Mark Dantonio) won the Lowe’s Senior CLASS Award for 2011—an award for “notable achievements in four areas of excellence—community, classroom, character and competition.” Says Cousins, “It’s very humbling. . . . It goes without saying that our coaching staff, my teammates, and our program in general is a classy organization, and by being around them, it gives me a chance to win an incredible award such as this.” A four-time Academic All-Big Ten selection, Cousins boasts a 3.684 cumulative GPA and has volunteered to help many community organizations ranging from the pediatric ward at Sparrow Hospital in Lansing to countless church and youth

POWERS GOLF—Junior Golfer Caroline Powers carded the best 54-hole tournament score in MSU women’s golf history with an 8-under 208 (69-68-71) at the Tar Heel Invitational at the University of North Carolina’s Finley Golf Course. Powers, who broke the previous record of 210

shot by Rachel (Meikle) Lubahn at the Northwestern Invitational in April 2006, tied for second overall. The tournament featured 15 teams ranked in the Top 50 of the Golfweek/Sagarin rankings. Powers also tied a single-round MSU record with a 68 on her second round.

NEW RECRUITS FILL NEEDS

The momentum generated by back to back 11-win seasons, the Legends championship and the Outback Bowl victory continued in February as MSU announced 18 recruits for 2012. MSU cast a wider net than normal, as only four players are from Michigan. Among them was the state’s No. 1-ranked player—the third straight year the top-rated in-state player chose to be a Spartan. MSU took seven from Ohio, two each from Florida and Pennsylvania, and one each from Georgia, Indiana and Oregon.

In addition, Sophomore Wide Receiver DeAnthony Arnett, a highly-ranked recruit in 2011, transferred to MSU from Tennessee.

MSU took four wide receivers and four defensive backs. Mark Dantonio, who coached defensive backs, calls this group perhaps the most promising of any such group he has had.

“Just like recruiting is basically going to set the tone for you as you move forward, tomorrow will be all about winter conditioning, and the next phase will be about spring practice,” notes Mark Dantonio.

NAME	POS	HT/WT	CITY
Riley Bullough	LB	6-2/205	Traverse City
Aaron Burbridge	WR	6-1/175	Farmington Hills
Demetrious Cox	DB	6-1/192	Jeannette, PA
Jermaine Edmondson	DB	6-1/170	Canton, OH
David Fennell	DT	6-3/274	Portland, OR
Zach Higgins	OL	6-5/305	Alliance, OH
Evan Jones	TE	6-6/240	West Lafayette, OH
Kyle Kerrick	WR	6-3/183	Coatesville, PA
Kodi Kieler	OL	6-6/305	Gibraltar
Macgarrett Kings Jr.	WR	5-11/178	Fort Lauderdale, FL
Jamal Lyles	DE	6-3/215	Southfield
Monty Madaris	WR	6-2/190	Cincinnati, OH
Benny McGowan	OL	6-4/290	Centerville, OH
Mark Meyers	DB	6-0/180	Toledo, OH
Tyler O’Connor	QB	6-3/202	Lima, OH
Josiah Price	TE	6-5/239	Greentown, IN
Ezra Robinson	DB	6-0/174	Sarasota, FL
Nick Tompkins	RB	5-10/185	Snellville, GA

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ALMA MATTERS

REGIONAL CLUBS

CENTRAL OHIO—Oct. 15: More than 100 Spartans and Wolverines gathered to watch the MSU-UM game. Sep. 17: About 35 area Spartans gathered at Gallo's Tap Room, Columbus, to watch the MSU-Notre Dame game.



▲ **COASTAL ALUMNI, GA**—Nov.: Area Spartans gathered for football game watches at B&D Burgers, Savannah, GA. The club raised \$500 for cancer research at MSU.

DALLAS/FORT WORTH, TX—Nov. 15: About 45 area Spartans attended a game watch of MSU-Duke at Blackfinn Restaurant & Saloon, Addison. Special guests included MSUAA Executive Director Scott Westerman, MSUAA Associate Director Sue Petrisin, and MSU Development Officer Brenda Parolini.

DC SPARTANS—Dec. 4: Nearly 70 area Spartans gathered for a holiday tea party at the Willard Hotel. Dec. 3: About 300 area Spartans attended a reception at the Capitol Lounge to meet Seth "Mayhem" Mitchell, former MSU linebacker who is a heavy-weight boxing contender. Oct. 8: More than 30 area Spartans hosted the MSU Army ROTC 10-miler team at the Capitol Lounge for a reception prior to the big race in Washington, DC.

EASTERN WAYNE COUNTY—Nov. 18: More than 100 area Spartans attended a

presentation on forensic science by MSU professors David Foran and Todd Fenton at the Grosse Pointe Yacht Club. Oct. 15: Some 60 area Spartans and Wolverines attended a party to watch the MSU-UM football game at the Dirty Dog Jazz Café in Grosse Pointe Farms. Oct. 1: More than 70 area Spartans attended a game watch of MSU-OSU at Village Grille, Grosse Pointe Park.

GREATER NEW YORK

Sep. 9: More than 50 area Spartans attended the Spartan Fall Fest at Heartland Brewery, Empire State Building. Special guest was MSUAA Assistant Director Tim Bograkos. The club raised \$1,150 for its endowed scholarship fund. ▼



Jason Slomack

GREATER ST. LOUIS, MO

Oct. 8: More than two dozen area young alumni enjoyed a tour of Missouri wineries. ▼

KANSAS CITY—Dec. 3: About 50 area Spartans gathered



at Fox and Hound, Overland Park, KS, for the Big Ten Championship football game watch. Nov. 11: About 70 area Spartans and Tar Heels—represented by club presidents John Mertz and Laura Grooms—watched the Carrier Classic telecast at Fox & Hound. The event raised \$300 for the USO.

METRO CHICAGO

Dec. 10: About 100 area Spartans attended the Tacky Sweater Christmas Party at the Tin Lizzie. Nov. 6: About 300 people attended a lecture by MSU Professor Paul Thompson, the W. K. Kellogg Chair in Agricultural, Food and Community Ethics, during the Chicago Humanities Festival at

the Chicago History Museum. Nov. 5: About 80 area Spartans took part in the Spartan Fall Crawl, visiting eight Chicago bars. Sep. 19: About 70 area Spartans attended a golf outing at Prairie Landing, a fundraiser for the club's endowed scholarship.



MID-MICHIGAN—Oct. 14: Dave Brown, MSUAA assistant director, and Sparty were among some 130 Spartans who celebrated the club's 45th anniversary at the Spartan Hall of Fame Café. Special guests included MSUAA Executive Director Scott Westerman, MSU Cheerleaders and members of the Spartan Marching Band. ▲

NORTH FLORIDA—Dec. 4: About 20 area Spartans attended a holiday party at the home of John and Melanie Dillingham in Jacksonville. Over 50 pounds of pet food was collected to benefit Pet Meals on Wheels.

Courtesy of Meredith Immen

OREGON & SOUTHWEST WASHINGTON—Nov. 11: ▼

About 20 alumni from MSU and North Carolina watched the Carrier Classic basketball game at Macadam's Bar & Grill, Portland, OR. Over 110 pounds of food was donated to the Oregon Food Bank (see photo).

Courtesy of Anna Browne



SAN DIEGO, CA—Oct.:

Area Spartans visited nine college fairs attended by 10,000 area students. In 2010, 40 area students were admitted to MSU—and 15 of them registered.

SEATTLE, WA—Nov. 11:

About 60 area Spartans and Tar Heels gathered to watch the Carrier Classic telecast at Buckleys. About 150 pounds of food was collected to benefit the NW Harvest food bank.

SPACE COAST, FLORIDA—Sep. 7:

About 18 area Spartans participated in a two-day football and wine tour, attending the MSU-Florida Atlantic game and visiting wineries in Traverse City's Old Mission Peninsula. ▼

WEST MICHIGAN—Oct.

14: Tom Braun (left) and Tim Klaes completed a 62-mile run from Grand Rapids to Spartan Stadium to raise awareness for the Wounded Warrior Project, on the day before the MSU-UM game. Oct. 9: About 300 area Spartans attended the first Spartan Harvest Spectacular at Robinette's Apple Haus and Orchard, which provided each family with a gallon of cider and a dozen doughnuts. ▼



Joy Schroeder



CONSTITUENT ASSOCIATIONS

JAMES MADISON COLLEGE—

Sep. 8: More than 100 people attended the JMCAA student welcoming reception at Wilson Hall Auditorium. It was an opportunity for students to network and receive career advice from alumni. ►



SOCIAL SCIENCE—Oct. 22:

More than 300 alumni and friends attended the College of Social Science Homecoming Tailgate. Special guest was Dean Marietta Baba.

INTERNATIONAL CLUBS

MEXICO CITY—Nov. 8:

About 25 area Spartans and friends gathered at the home of club leader Jose Calderoni-Arroyo and his wife Christine Guerra.



SINGAPORE—Sep. 20: ▲

Patricia Croom (lower right), director of International Admissions, met with Singapore alumni at the Red Dot Brewhouse.



SHANGHAI, CHINA—

Oct. 22: (L to r) Dan Eschtruth, Todd Kunding, Jackie Wang and Jerry Chang were among some 20 area Spartans who gathered at the Camel Sports Bar to watch the MSU-Wisconsin game. Special guest was Todd Kunding, former president of the Midland Alumni Club. ►



TAIWAN—Dec. 17: About ▲

50 area Spartans gathered for an annual meeting at the Artco de Café in Taipei. Sep. 17: About 18 area alumni met for a picnic and alumni reunion at Tanshan Farm, Jingualiao, New Taipei City.

ALUMNI INTEREST GROUPS

LATINO ALUMNI—Oct. 22: About 150 Latino alumni participated in homecoming events, including a reception and tailgate at the Kedzie Courtyard. Returning alumni hailed from as far away as California and Florida. A Latino Alumni Endowed Scholarship has been established. ▼



Courtesy of Alex Losada



TOKYO, JAPAN—Jun. 21: ▲ Robert Bao, editor of the *MSU Alumni Magazine*. ▼ Members of the Tokyo alumni club hosted a reception to welcome Stefanie Lenway (third row, middle), dean of MSU's Broad College of Business, and her husband Thomas P. Murtha.



URUGUAY—Nov. 20: Club President Jorge Arbolea received an update of MSU news from

SPARTAN PLATES

—Last summer, the Spartan Plates, a club consisting of Spartan fans who honor MSU with their personalized license plates, gathered for its 33rd annual luncheon on the front steps of Morrill Hall. The historic building opened in 1900 as the first women's residence hall on campus.



Courtesy of Bob Nelson



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THIS IS SPARTA!—Bruce, ▲ '70, and Karen Richards, '70, pose by the statue of King Leonidas in Sparta, Greece. They were part of some 51 alumni traveling with the MSU Alumni Association's "Best of the Mediterranean and Greek Isles" tour last fall. Historians say that Leonidas died along with 300 Spartans in the Battle of Thermopylae against the Persians—a

battle that gave the Greeks time to regroup and eventually beat the Persians in the Battle of Salamis.

GO GREEN!—A Spartan fan rings a cowbell at the MSU Detroit Center's Thanksgiving Day Parade Party. He was part of a contingent of 200 Spartans enjoying an annual get-together at the MSU center. ▼

Iris Shen-VanBuren





(L to r, standing) Demmer Corp. CEO Bill Demmer, MSU Broad College of Business Professor Shawnee Vickery, MSU President Lou Anna K. Simon and Broad College Dean Stefanie Lenway, with company founder John Demmer (front).

GIFT BY DEMMER FAMILY AIMS FOR BUSINESS TRANSFORMATION AND GLOBAL COMPETITIVENESS

A mid-Michigan manufacturer's gift will help Michigan State University's Broad College of Business become a hub for business transformation, assisting Michigan companies to better compete globally.

A \$5 million gift to establish the John and Marnie Demmer Center for Business Transformation will open the door to more opportunities for consulting, advisory and educational services from MSU faculty members and student teams to state business owners.

"We had been using consultants' help from all over the country to assist us in our business transformation," Demmer Corp. CEO Bill Demmer says. "As our relationship with the MSU Broad College of Business grew we found that everything we needed was right in our own back yard. We are so pleased to give back and participate in marshaling the tremendous resources of MSU to transform other Michigan businesses."

Executives will be able to access research on business process improvement with an emphasis on growth strategies, lean manufacturing and supply chain, and quality processes and metrics. Additionally, the Demmer family's gift will create an endowment to provide funding for faculty members and students to work with companies and for educational grants to smaller companies to enable them to participate in the center's executive education programs.

Lansing-based manufacturer Demmer Corp. in 2008 joined other area companies in a Broad College business strategic reinvention pro-

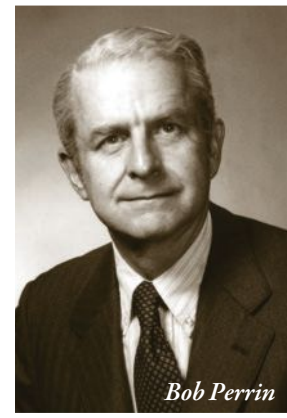
gram. It so impressed Bill Demmer that he wanted to share it—and his own company's experience—with others.

"We are tremendously grateful to the Demmers for a gift that will benefit not only the Broad College at Michigan State and our students, but other Michigan businesses," says MSU President Lou Anna K. Simon. "We are excited about the positive impact this center will have on the region and its alignment with our commitment to put knowledge to work to benefit society."

Demmer Corp. was formed in 1951 by John E. Demmer to design and build tools, dies and special machinery. In the 1990s, the company adopted lean manufacturing and quality principles, positioning it to expand in the next decade as new opportunities arose. Demmer today is a key supplier of assemblies, modules and components for defense, aerospace, transportation and commercial heavy fabrication customers.

The Demmer family, which includes John Demmer and his late wife Marnie; son Bill Demmer and his wife Linda; son Ed Demmer and his wife Laura; and daughter Marguerite (Peg Demmer) Breuer and her husband Bradford, is associated with numerous MSU initiatives. Gifts from the Demmer family have previously created the John and Marnie Demmer Shooting Sports Education and Training Center and the Demmer Family Hall of History in the Skandalaris Football Center.

"With innovation comes increased competitive pressure on companies," says Eli and Edythe L. Broad College Dean Stefanie Lenway. "The Demmer Center for Business Transformation gives Broad College faculty and students an opportunity to help companies learn what they can do to improve their ability to compete in their industry sector." ▲



Bob Perrin

Professor Robert Alexander of MSU's art department examines some photos for an exhibit in the Kresge Art Center in 1972.



REVISITING AN OLD, FORLORN "CRIME AGAINST SPARTANHOOD"

By Robert Bao, Editor

Just a couple of years ago, controversy erupted over MSU plans to use a newer Spartan helmet logo. Many Spartans took to the airwaves and social media to cry out against any tampering with the "traditional" helmet logo.

Ironically, the "traditional" helmet logo that everyone now reveres was of relative recent vintage, unveiled in the late 1970s amid a controversy of its own. At that time many alumni preferred the old unshaven cartoon image known as the "Gruff" and they considered the helmet logo as too corporate and too politically correct.

How did the helmet logo appear in the first place? This is a little known story, and it revolves around Bob Perrin, MSU vice president of university and federal relations from 1970-79. Perrin, now 84, lives in Naples, FL.

"Part of my job then was to look after the university's image," recalls Perrin, who worked in the administration of President Clifton R. Wharton, Jr. "To my mind, the worst face we were presenting was that of Sparty."

Perrin hastens to emphasize he had no problem with "The Spartan" statue. What he did not like was, in his words, "... that dirty, unshaven, lantern-jawed, cretinous caricature wearing the helmet with the brush on top." Accordingly, in 1976 he launched a contest for a new Sparty image that would be chosen by popular vote. He even offered a \$100 prize for the winning design.

"The (Gruff) caricature was not only ugly, it was just one of several Sparty renditions floating around," explains Bob. "More to the point, it was not even exclusive to MSU."

But Perrin began to rue his decision after alumni inundated him

with pleas to stop tampering with tradition and to leave "Gruff" Sparty alone. To make matters worse, contest entries did not exactly gush forth.

"I was wondering how to close out the sorry mess," Bob admits.

At long last, some 10 entries materialized, and so they became the contest finalists. The drawings were printed in the *State News* along with a ranking ballot. Although there were more than 40,000 students on campus, and several thousand faculty and staff, a mere 737 ballots were cast—of which 606 wanted to retain the old gruff image.

The winner, with 56 first-place and 46 second-place votes, turned out to be a design that Robert Alexander, MSU professor of art, had hurriedly sketched on the back of an envelope. The winner was announced on June 9, 1976.

"He was asked to turn it into a finished drawing, which then was

made available to manufacturers of campus store goods," recalls Perrin.

Alexander was a member of MSU's faculty from 1955-87. He taught industrial design, drawing, graphics and photography. He passed away in 1989.

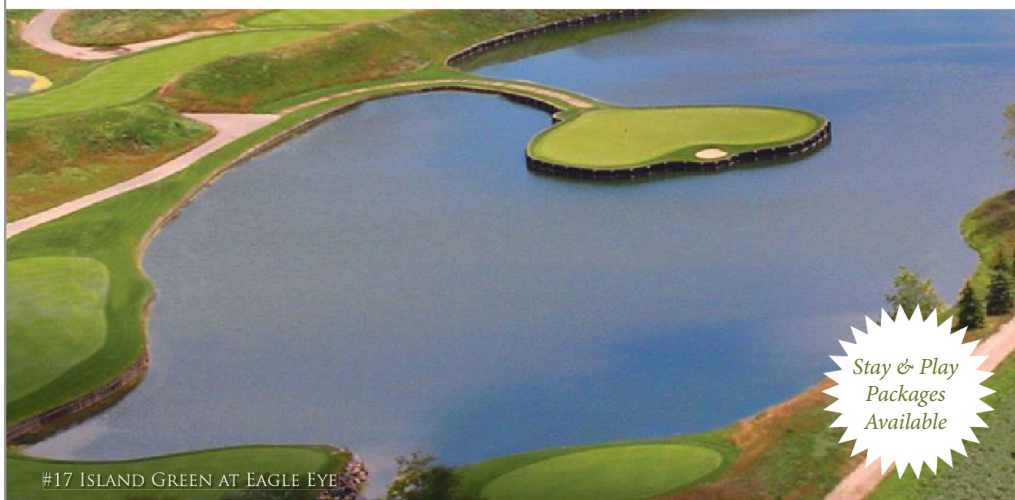
"The lesson I've learned from this episode is that vice presidents shouldn't interfere in such emotional matters," says Perrin. "Most took the contest in the good humor that was intended, but some accused me of very serious crimes against nature and Spartanhood."

But the new helmet logo did catch on, eventually. Perrin hit a home run, but no one realized that the ball had gone over the fence until decades later. It's high time to credit this unsung hero... and to absolve him of his crime against Spartanhood. 🍀

Photos courtesy of MSU Archives & Historical Collections

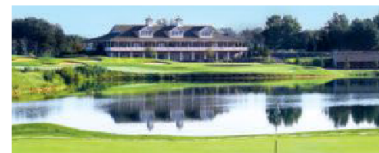


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STATE'S STARS

Felix L. Armfield, PhD '98, professor of history at Buffalo State College, has published *Eugene Kinckle Jones: The National Urban League and Black Social Work, 1910-1940* (University of Illinois Press, 2012), the story of professionalization of black social work in America, a story that coincided with the Great Migration of African Americans to northern urban centers. Armfield previously wrote *Black Life in West Central Illinois* (Arcadia Publishing, 2001).

Peg West, '91, local news editor of the *Grand Rapids Press*, has



been named the interim editor of the *Muskegon Chronicle*. West worked 19 years at the Grand Rapids Press, beginning

her career in the Holland Bureau as an education and township reporter. She went on to be the newspaper's assistant sports editor, courts and crime editor, night editor and police reporter. While a student at MSU, West was the editor of the student newspaper, *The State News*.

Dick Taylor, '38, a businessman and philanthropist in Mansfield,



OH, has been honored with the Richland Area Chamber of Commerce's 2011 Chairman's Award for his

long-standing commitment to community service. Taylor, president of Taylor Metal Products Co., has been a longtime supporter of the YMCA, and the Taylor Family Wellness Center was named in honor of him and his family. Taylor served on the Dream Team committee that led the recent Rehab Center capital campaign that successfully raised the needed money to renovate the building and purchase new equipment.

Melanie Hemmer, '01, safety director at Divane Bros. Electric,



Franklin Park, has been named one of "100 Women Making a Difference in Safety" by the American Society

of Safety Engineers (ASSE) Women in Safety Engineering (WISE) Common Interest Group. Her role at Divane requires implementing 90 percent of the company's safety programs. A member of ASSE and WISE, Hemmer also chairs the safety committee for the Association of Subcontractors and Affiliates and is a member of the National Safety Council and the Board of Certified Safety Professionals.

Maurice Jenkins, '76, managing partner of Jackson Lewis



LLP, Detroit, has been named as a "Best Lawyer" and as a 2011 *Super Lawyer*. Jenkins is a fellow in the American College

of Trial Lawyers, and a member of the American Bar Association, the Michigan State Bar Association and the Wolverine Bar Association. He serves on the MSU College of Law Board of Trustees and on the faculty of the State Bar of Michigan Institute of Continuing Legal Education. Jenkins is a member of the Presidents Club.

Stepheni Schlinker, '91, has been named the chief of staff and



press secretary of Accident Fund Holdings, Inc., Lansing. Schlinker held a variety of communication

positions, including media and public relations advisor for Accident Fund Holdings, Inc., communications director for AARP Michigan, public relations director for the Michigan Dept. of Human Services, public relations director for the Michigan Lottery, public policy communications

manager for the Michigan Association of Realtors and communications specialist for the United Food and Commercial Workers Union Local 951.

Seth Drucker, '93, has been named partner at Honigman



Miller Schwartz and Cohn LLP, Detroit. He attended law school after working for nine years as an automotive development engineer at GM and Ford. In addition to his current practice, Drucker is an active participant in the firm's pro-bono program, providing legal services to under-represented individuals. He was recognized as a *Michigan Super Lawyer "Rising Star."* Drucker is an MSUAA Life Member.

John A. Coakley, '00, fifth grade educator at Hillsdale



Community Schools, has been named president of the Lansing Stake of the Church of Jesus Christ of Latter-Day Saints.

As a stake president, he will be a minister and administrator to over 10 bishops and branch presidents and their congregations in the eight counties surrounding the Lansing area. Coakley was selected under the direction of two church seventies, or authorities, who came to Michigan from Utah and New York.

Julie Fasone Holder, '75, has been elected to the board of



directors of the Eastman Chemical Co., Kingsport, TN. In 2009, she retired from Dow Chemical Co., Midland, as a senior vice president, chief marketing and sales reputation officer. She joined Dow in their sales department and quickly moved into management positions.

After Dow, she founded JFH Insights LLC, a consulting firm dedicated to leadership coaching for high potential women executives. Holder is a member of the Beaumont Tower Society and is an MSUAA Life Member.

Jay Farner, '95, president of Quicken Loans Inc., Detroit, has



been named to the 2011 *Crain's Detroit Business* "40 Under 40" class. Farner began his career with Rock Financial, now Quicken Loans. He started as a mortgage banker, then was promoted to director of Mortgage Banking and was later named vice president of Web Mortgage Banking. Farner played a key role in establishing Quicken as the largest online lender in the country. He supports Bizdom U and is a member of the board of directors at Cellerant, Sociocast, ePrize and Protect America and is a member of the Karmanos Cancer Institute's Marketing Committee.

Scott Wagasky, '86, has been named vice president and market



manager for the East Lansing office of Tri-Star Trust Bank, Saginaw. Prior to joining Tri-Star, he was a principal and director of Business Development for Grand Rapids-based AMBS Investment Counsel, LLC. Wagasky serves on the Stewardship Committee of First Presbyterian Church of Grand Haven and the Public Policy Committee of the Tri-Cities Chamber of Commerce. He is president of the Lake Michigan Estate Planning Council.

Kathryn Ossian, '80, principal and leader of Miller Canfield's Information Technology and Cyberlaw Section, Detroit, was honored as a 2012 Women in the Law by *Michigan Lawyers Weekly*. Ossian is a certified advanced



facilitator at the University of Phoenix where she teaches graduate level business law courses. She is listed in the

Information Technology Law Section of *The Best Lawyers in America*, as well as *Michigan Super Lawyers*. She is a frequent speaker and has published several articles related to her areas of practice. Ossian is a member of the Presidents Club.

Randall Gross, '03, director of the Office of Policy and Legislative



Affairs for the Michigan Dept. of Environmental Equality, has joined ITC Holdings Corp.

as manager of State Governmental Affairs for Michigan. Gross, director of Environmental and Regulatory Policy for the Michigan Manufacturers Association, was a regulatory analyst at ITC, and was deputy House Republican Legal Counsel/Policy advisor. In his new position, Gross will be ITC's primary interface with state government officials. He is a member of the State Bar of Michigan and the American Bar Association.

Jennifer Kluge, '93, president and CEO of the Michigan Business



& Professional Association (MBPA) and Michigan Food & Beverage Association (MFBA), is the

recipient of Vistage Michigan's 2011 Soaring Eagle Award. A resident of Grosse Pointe, Kluge helped the MBPA become one of the largest trade associations in the Midwest. Kluge launched the National Association for Business Resources (NABR), Detroit, and acquired the local business magazine, *Corp!*. Kluge has been

named to *Crain's Detroit Business* "40 Under 40." She is an MSUAA Life Member.

David Schroeder, '82, of Suburban Inns, Grand Rapids, has been named the company's director of operations. Previously he spent 11 years with Larkin Hotels, the largest Holiday



Inn franchise in the world, where he was a regional director responsible for 16 hotels in five states.

Schroeder was previously manager of the Midland Country Club and director of club operations for the Resorts of Tullymore & St. Ives. He is a member of the Beaumont Tower Society and is an MSUAA Life Member.

Karen Morris, '84, senior vice president of Human Resources at Meijer, Inc., Grand Rapids, has been inducted into the MSU School of Criminal Justice Hall of Fame.



Karen has 25 years of experience in human resources, including a stint as vice president of human resources for Tyco International and Starwood Hotels and Resorts. She is a member of the Executive Leadership Council, Goodwill Industries of Greater Grand Rapids; YMCA of Greater Grand Rapids; United Methodist Community House and Nokomis Foundation.

Bret Schapman, '99, operator of Ingleside Farms, Almont, is the 2011 winner of Michigan Farm Bureau's (MFB) Outstanding Young Agricultural Leader Award.



He oversees recordkeeping as a state-certified operator of a Concentrated Animal Feeding Operation, and was instrumental in helping the farm become verified

in the Michigan Agriculture Environmental Assurance Program. Schapman serves as VP and Farmers CARE chairperson within the Macomb County Farm Bureau and serves as a member of the Michigan Beef Industry Commission. He is an MSUAA Life Member.

Deanna Fell, '93, has recently been named the vice president of commercialization at Mary Kay, Inc., Dallas, TX. In the last 10 years, Fell has served in various management



positions with Mary Kay. In 2008, Fell was named Mary Kay, Inc.'s "Leader of the Year." Previously, she held manufacturing and engineering positions at Frito Lay and Pepsi. She is a member of Philanthropic Educational Organization Sisterhood and the Foundation for Women's Resources.

Steven Warach, '76, a neurologist and senior investigator at the National Institutes of Health (NIH), Dallas, TX, has been named founding executive director of the Seton/UT Southwestern Clinical Research



Institute in Austin, TX. Warach has been at the NIH since 1999 as a senior investigator and is also the chief of the Section on Stroke Diagnosis and Therapeutics at the National Institute of Neurological Disorders and Stroke.

Kathryn Kosko, '10, a teacher at Marshall Upper Elementary School in Wayne-Westland Community Schools, was named 2010-2011 National Student Teacher of the



Year by Kappa Delta Pi and the Association of Teacher Educators. She was also named Michigan

Student Teacher of the Year by the Michigan Association of Teacher Educators. Kosko completed her student teaching internship at Gompers Elementary, Detroit. At MSU, she was active with the University Activities Board and served as a Spartan Ambassador. Kosko was in the Honors College and a member of the 2009 Homecoming Court.

Will Wiest, '96, has been named director of sales and marketing for the Ritz-Carlton Key Biscayne, Miami, FL. Prior to his new position, Wiest was director of sales for the



Ritz-Carlton, Laguna Niguel, CA. Previously he served as director of group sales, and also held leadership positions in Ritz-Carlton properties in Rancho Mirage and Pasadena, CA, and Kapalua in Maui, Hawaii. Before joining the Ritz-Carlton in 2002, Wiest held various management positions at the Waldorf-Astoria in New York.



State's Stars Submissions:

MSU Alumni Magazine
Spartan Way
535 Chestnut Rd., Room 300
East Lansing, MI 48824
or baor@msu.edu

All entries are subject to editorial review.

ERRATA

Ron Linton, '51, was named chairman of the Washington, DC Taxicab Commission.

Alice M. (Pritchard) Proctor, '57, of Lima, OH, was erroneously listed in the obituaries section.

Bonnie Knutson, MSU professor of hospitality business, was formerly chair of the MSU Alumni Association's national alumni board.



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OBITUARIES

'30s

Howard A. Benjamin, '30, of Barrington, IL, May 21, age 102.
Donald D. Pickard, '34, of East Lansing, Oct. 12, age 101.
Marie S. Walt, '34, of Lansing.
Ethelyn G. (Rae) Stingley, '35, of Mason, Oct. 19, age 99.
Kenneth A. DeLonge, '36, of Essex, CT, Nov. 11, age 98.
Joseph F. Lash, '38, of Southfield, Nov. 2, age 95.
John E. Long, '38, of Tacoma, WA, Dec. 16, age 95.
Frederick W. Schulte, '38, of Malibu, CA, Aug. 15.
William V. Welles, '38, of Homer, AK, Jan. 8, age 95.
Geraldine M. (Keehn) Acker, '39, of Grosse Ile, Dec. 8, age 93.
Jane A. (Willson) Borchert, '39, of Scandia, MN, Nov. 11, age 94.
Richard W. Hutchinson, '39, of Beverly Hills, Dec. 24, age 95.

'40s

William K. Collinge, '40, of Detroit, Nov. 15, age 93.
Jeanne F. (Houghton) Lampman, '40, of Lynchburg, VA.
Walter J. Rummel, '40, of Sebawaing, Nov. 12, age 93.
Ivory L. (Johnson) Clinton, '41, of East Lansing, Sep. 16.
John J. Kiljan, '41, of Arvada, CO.
Milner D. Quigley, '41, of Duluth, GA.
Vivian J. (Lippman) Stoutimore, '41, of Fort Worth, TX, Nov. 19, age 92.
Glen E. (Walkley) Trembath, '41, of Sears, Oct. 16, age 92.
William E. Zavitz, '41, of Fort Myers, FL, Jun. 21, age 91.
Frederick C. Bartlett, '42, of Grand Rapids.
Ronald C. Bishop, '42, of Lancaster, PA.
Stuart S. Branson, '42, of Midland, Apr. 21, age 90.
Wilford C. Dent, '42, of Midland, Jan. 22.
Doris C. (Anderson) Hoffman, '42, of Flushing, Nov. 15, age 92.
Victor G. Horvath, '42, of Grand Ledge, Sep. 29, age 90.
Frederick M. Southworth, '42, of Grand Rapids, Jan. 27, age 91.
Lorne W. Weber, '42, of Detroit, Apr. 2.
Raymond L. Jablonski, '43, of Grand Rapids, Nov. 22, age 91.
John G. Johnston, '43, of Albuquerque, NM, Jun. 30, age 92.
Robert G. Parkhurst, '43, of Clearwater, FL, Oct. 25, age 89.
Patricia J. Toolan, '43, of Burlingame, CA, Nov. 5, age 90.
Margaret A. (Hirth) Lemone, '44, of El Paso, TX, Oct. 29, age 89.
Paul E. Neff, '44, of Tucson, AZ, Apr. 3, age 89.
Jean M. (McComb) Pellegrini, '44, of Fairfax, VA, Sep. 2, age 88.
Emanuel R. Zingeser, '44, of Farmington Hills, Oct. 18, age 90.
Theresa M. Chiaverini, '45, of Detroit, Nov. 6.
Jean DeVoe, '45, of Clearwater Beach, FL, Dec. 25, age 89.
Howard L. Kesselring, '45, of Jonesville.
Kathryn J. (Besemer) Smith, '45, of Charlevoix, Dec. 15, age 87.
Ronald T. Williams, '45, of Santa Barbara, CA, Dec. 26.
Stanley R. Anderson, '46, of Norwalk, OH, Nov. 26, age 91.
May Ann (Major) Ehlers, '46, of San Luis Obispo, CA, Sep. 14, age 88.
Alexander H. Funtukis, '46, of Clearwater, FL, Oct. 24.
Fern M. (Webster) Garner, '46, of Utica, Dec. 15, age 88.
Robert M. Holland, '46, of Detroit, Oct. 21, age 88.
Frieda N. (Fritz) Johnston, '46, of Oceanside, CA, Jan. 18, age 87.
Ruth A. (Schomberg) Norton, '46, of Petoskey, Jan. 14.
Doris A. (Rinehart) Reeves, '46, of Nutley, NJ, Nov. 5, age 87.
Mildred E. (Foss) Sullivan, '46, of Lexington.

Yvonne M. (Behler) Whitmore, '46, of East Lansing, Nov. 4.
Norma J. (Robinson) Barbour, '47, of Rockford.
Betty R. (Middleton) Geisler, '47, of Washington, DC, Mar. 14, age 86.
William F. Jackson, '47, of Lakeland, FL, Dec. 14, age 85.
Edgar O. Miller, '47, of Canton, Dec. 30, age 89.
Barbara A. (Lucas) Picciuto, '47, of Woodstock, VA, Jan. 22, age 86.
Fayola (Foltz) Ash, '48, of Ann Arbor, Mar. 15, age 85.
Robertson L. Clark, '48, of Grand Rapids, Apr. 30.
Richard J. Collins, '48, of Phoenix, AZ.
Robert L. Krentler, '48, of Grosse Ile, Apr. 11, age 87.
Ethison G. Lill, '48, of Hemet, CA.
Atco Maklin, '48, of Tucson, AZ.
J. Howard North, '48, of Waynesboro, PA, Dec. 25, age 86.
Eugene G. Perkins, '48, of Atlantic Beach, NC, Jun. 29, age 87.
Martin Vallee, '48, of Flint.
Donald H. Barnes, '49, of Savannah, GA.
John C. Brown, '49, of Orem, UT, Dec. 24, age 94.
Frank B. Conklin, '49, of Battle Creek, Jun. 14, age 90.
Virginia M. Danville, '49, of Copemish, Dec. 18, age 85.
Charles R. Foyle, '49, of Royal Oak, Dec. 2, age 87.
Nancy (Morgan) Houston, '49, of Portage, Dec. 17, age 83.
George C. Klingbeil, '49, of Middleton, WI, Dec. 14, age 93.
Harry W. Maxwell, '49, of Kalamazoo, Nov. 22, age 87.
Robert C. McCormick, '49, of Detroit, Oct. 21, age 87.
Carl T. Redemann, '49, of Walnut Creek, CA, Sep. 22, age 92.
Geraldine E. (Emmert) Rood, '49, of Covert.
Wesley K. Smith, '49, of Grand Rapids, Jul. 17, age 85.
Elizabeth A. (McGuire)
VanWagnen, '49, of Berkley, Oct. 30, age 83.

Robert H. Vanderslice, '49, of Carlsbad, CA, Jun. 6, age 87.
George M. White, '49, of Birmingham, Nov. 13, age 84.
Marvin C. Wilson, '49, of Waterford, Feb. 2, age 88.

'50s

Franklin D. Aldrich, '50, of Gig Harbor, WA.
Theodore J. Brevik, '50, of Sun City West, AZ.
Robert D. De Geus, '50, of Coopersville.
Edward L. Dold, '50, of Woodlyn, PA, Sep. 7.
Robert M. Eddy, '50, of Jackson.
Geraldine H. (Coffman) Farris, '50, of Bay City, Aug. 6, age 84.
Richard K. Fox, '50, of Detroit, Dec. 27, age 90.
Patricia J. Greer, '50, of Tazewell, TN, Dec. 30, age 82.
Howard E. Hachtel, '50, of Lakeland, FL.
Ruth-Ann B. (Burns) Kelley, '50, of Garden City.
John W. Kreutzman, '50, of Redford, Sep. 16.
Erwin Kulosa, '50, of Albuquerque, NM, Dec. 4, age 83.
William M. Morris, '50, of Punta Gorda, FL.
Richard L. Mullan, '50, of Greendale, WI.
Marvin Murray, '50, of Saint Louis, MO, Jun. 11, age 84.
Elroy A. Oberheu, '50, of Saint Joseph, Nov. 22, age 89.
Russell F. Smith, '50, of Lansing, Sep. 10, age 94.
Charles B. Sperry, '50, of Midland, Jan. 19, age 86.
Donald B. Stonebreaker, '50, of Orlando, FL.
Robert J. Webber, '50, of Farmington Hills, Jan. 13, age 83.
Robert W. Woody, '50, of Burton, Feb. 15.
Eleanor R. (Howard) Workman, '50, of Harlingen, TX.
George W. Younkin, '50, of Fond Du Lac, WI, Oct. 17, age 87.

- Robert W. Acton*, '51, of Jackson, Apr. 26, age 86.
- Joseph W. Allen*, '51, of Davidson, NC, Dec. 14, age 84.
- Robert M. Bachteal*, '51, of Ann Arbor, Aug. 5, age 87.
- Robert A. Baldwin*, '51, of Swoope, VA, Nov. 27, age 88.
- Harry T. Bigelow*, '51, of Flint, Jan. 3, age 85.
- Lawrence D. Burgund*, '51, of Sea Girt, NJ, Dec. 26.
- William K. Ecklund*, '51, of Boyne City, Dec. 14, age 82.
- Clare Fischer*, '51, of Studio City, CA, Jan. 26, age 83.
- James E. Fitzgerald*, '51, of Lapeer, Jan. 11.
- William F. Freymiller*, '51, of Fargo, ND, Oct. 27, age 88.
- Daniel J. Hewitt*, '51, of Elkton, MD, Dec. 20, age 83.
- Thomas H. Joyce*, '51, of Santa Cruz, CA, Mar. 17, age 84.
- Gretchen L. Kiebler*, '51, of Marshall, Jan. 25, age 84.
- Bruce G. Kitchen*, '51, of Charlotte, NC, Nov. 6, age 81.
- Jack A. Kuder*, '51, of The Villages, FL, May 17, age 83.
- Merton A. Lyons*, '51, of Sycamore, IL.
- William L. McNatt*, '51, of Sherman Oaks, CA, Aug. 1, age 81.
- Garvin H. Meadowcroft*, '51, of Fontana, WI, Jun. 11, age 84.
- Loren R. Millette*, '51, of Clio.
- Thomas R. Neblett*, '51, of Plymouth.
- Norbert T. Nizinski*, '51, of La Porte, IN.
- Roy M. Ross*, '51, of Carrollton, TX, Mar. 10, age 83.
- Patricia C. (Hansen) Sikkenga*, '51, of Muskegon, Sep. 16, age 86.
- David J. Sparrow*, '51, of Birmingham, Jan. 1, age 84.
- Richard C. Stemple*, '51, of Meridian, ID.
- L. Dayl Stout*, '51, of Saint Clair.
- Louis E. Thom*, '51, of Eagle, Oct. 27.
- Carlos C. Tower*, '51, of Frankenmuth, Jan. 28, age 85.
- Robert D. Vanderberg*, '51, of Frankfort.
- Bernard Wasserman*, '51, of Brooklyn, NY, Nov. 11, age 91.
- Raymond G. Weidner*, '51, of Arden, NC, Apr. 29, age 83.
- Barbara A. (Stacy) Andrews*, '52, of Kalamazoo.
- Atwood C. Asbury*, '52, of Versailles, KY, Nov. 17, age 80.
- George J. Auchterlonie*, '52, of Bloomfield Hills.
- V. Ward Bennett*, '52, of Winter Park, FL, Dec. 25, age 88.
- Fred Chekaway*, '52, of West Bloomfield.
- Ronald L. Clise*, '52, of Cleveland, OH, May 1, age 88.
- George C. Corcoran*, '52, of Seattle, WA, Dec. 27, age 82.
- Lois E. (Stewart) Juengel*, '52, of Grand Blanc.
- Alfred N. Kolberg*, '52, of Okatie, SC.
- William J. Kruer*, '52, of Grand Rapids, Nov. 13, age 82.
- Donna (Maginn) Kursik*, '52, of Grand Blanc, Jan. 14, age 81.
- Jo Ann N. (Gorton) Levitt*, '52, of Roswell, NM, Jan. 22, age 86.
- Edward W. Lowes*, '52, of San Francisco, CA, Nov. 20, age 83.
- Doris J. (Lyon) Miller*, '52, of Grand Rapids.
- William W. Miller*, '52, of DeWitt, Nov. 23, age 81.
- Stuart R. Mulliken*, '52, of Wyoming, Sep. 22, age 83.
- Walter K. Novak*, '52, of Birmingham, AL, Nov. 23.
- Donald E. Osgood*, '52, of Tulsa, OK, May 29, age 85.
- Herman C. Pedersen*, '52, of Parma.
- Stewart F. Pincumbe*, '52, of Davison, Dec. 14, age 82.
- Bonnie G. (Gardner) Reister*, '52, of Chesterton, IN, Nov. 20, age 81.
- Anthony D. Rosati*, '52, of West Bloomfield, Sep. 14, age 85.
- Donald W. Rowan*, '52, of Westover, AL, Feb. 20, age 80.
- Daniel W. Rupple*, '52, of Menifee, CA.
- George C. Sturges*, '52, of Woodbury, CT, Dec. 11, age 91.
- George T. Trumbull*, '52, of Lansing, Oct. 31, age 82.
- Roberta K. VanWelt*, '52, of Santa Fe, NM, Sep. 14, age 81.
- Robert T. Young*, '52, of Centennial, CO.
- Shirlee A. (Nash) Zopf*, '52, of Avon, OH, Apr. 23, age 82.
- Janyce L. (Blessing) Albert*, '53, of Rockford, IL, Dec. 30, age 79.
- Gerald J. Edel*, '53, of Bad Axe, Jan. 10, age 79.
- Robert J. Garrison*, '53, of Beulah, Dec. 26.
- Robert W. Hussey*, '53, of Charleston, IL, Nov. 19, age 89.
- Ronald E. Kampe*, '53, of Alexandria, VA, Mar. 30, age 89.
- Roger F. Keller*, '53, of Hudson, OH, Dec. 28, age 89.
- Martin Kohlenberg*, '53, of Huntington Woods, Oct. 9.
- Charles C. Krueger*, '53, of Farmington, Dec. 2, age 80.
- Sally A. (Clark) Neeb*, '53, of Saint Petersburg, FL.
- Earl R. Sommers*, '53, of Waukegan, IL, Oct. 15, age 81.
- Michael B. Yaros*, '53, of Sturgis, Feb. 17, age 83.
- Harold O. Carter*, '54, of Fairfield, CA.
- Douglas G. Fleming*, '54, of Franklin, NC, Nov. 13, age 81.
- George M. Fox*, '54, of Detroit, Jan. 12.
- Franklin Patterson*, '54, of Marquette, Nov. 30, age 79.
- Charles W. Rutledge*, '54, of Pennington, NJ.
- Charles W. Schooley*, '54, of West Palm Beach, FL.
- Ford C. Slater*, '54, of Naples, FL, Jan. 15, age 79.
- Gail M. (McKenzie) Stoppel*, '54, of Aiken, SC, Jan. 17, age 77.
- Edwin C. Strasser*, '54, of Tonawanda, NY, Apr. 24, age 79.
- John H. Taylor*, '54, of Alpena.
- James E. Woolson*, '54, of Hartwick, NY, Dec. 27, age 82.
- David E. Cheklich*, '55, of Clarkston, Jun. 11, age 78.
- Leon V. Foster*, '55, of Englewood, FL.
- Herbert Howell*, '55, of Jackson, Jan. 19, age 92.
- Carole A. (Miller) Miller-Boone*, '55, of Sanibel, FL.
- Sharon D. (Eister) Moore*, '55, of Brighton, Nov. 3, age 78.
- Barry W. Norton*, '55, of Grand Rapids.
- Edward J. Slobodnik*, '55, of Chicago, IL.
- John Smith*, '55, of Sarasota, FL, Nov. 3, age 84.
- George P. Stegmier*, '55, of Ada.
- Joan M. (Theismann) Wing*, '55, of Rockwall, TX, Jan. 16, age 78.
- John R. Yelich*, '55, of Brooklyn Center, MN, Oct. 12, age 84.
- William A. Barber*, '56, of Pickford, Dec. 15, age 81.
- John D. Carlson*, '56, of Marco Island, FL.
- Dace L. (Spielberg) Cers*, '56, of Berea, OH.
- Elvira J. (Bisogni) Cole*, '56, of Millsboro, PA, Nov. 9, age 76.
- Alice J. (Rhodes) Edwards*, '56, of Kaleva.
- Sally F. Fife*, '56, of Santa Rosa, CA, Apr. 22, age 77.
- John D. McGrath*, '56, of Ottawa, IL, Dec. 8, age 79.
- Robert E. Quesnel*, '56, of Tucson, AZ.
- Douglas B. Rider*, '56, of Richmond, VA, Nov. 20, age 76.
- Barbara S. (Southwick) Runestad*, '56, of Grand Blanc.
- Nick Sacorafas*, '56, of Encinitas, CA.
- David K. Sale*, '56, of Ft. Lauderdale, FL, Jan. 21, age 78.
- William F. Smith*, '56, of St. Petersburg, FL, Sep. 21, age 87.
- James A. Sprott*, '56, of Grand Rapids, Oct. 27, age 78.
- Ronald F. Sveden*, '56, of Brewster, MA.
- Edwin B. Taylor*, '56, of Climax.
- Kathleen E. (Wood) Warren*, '56, of Traverse City, Jul. 4, age 77.
- William G. Chace*, '57, of Netherlands, Dec. 22, age 83.
- Earl R. Christian*, '57, of Bradenton, FL, Nov. 26, age 79.
- Donald E. Cooper*, '57, of Greenville, Nov. 27, age 76.

William M. Crosswhite, '57, of Gaithersburg, MD, Apr. 12, age 80.
Arnold W. Fritz, '57, of Massillon, OH, Aug. 14, age 80.
Richard E. Gale, '57, of Flint, Nov. 14, age 81.
Rosemary A. (Sculati) Larsen, '57, of Florence, WI, Jan. 19, age 76.
John H. McCollough, '57, of East Lansing, Jan. 17, age 76.
Charles J. Moser, '57, of West Bloomfield.
Cornelius C. Shih, '57, of Huntsville, AL.
Inez A. (Armstrong) Smith, '57, of Austin, TX.
Harry H. Tamburo, '57, of Henderson, NV.
Gail I. (Conolly) Zink, '57, of Fairport, NY.
Donald J. Acker, '58, of Goshen, IN, May 30, age 80.
Anthony A. Bellas, '58, of Trenton, Apr. 2, age 79.
Jack W. Boyer, '58, of Grand Haven, Nov. 20, age 76.
Leonard E. Brady, '58, of Findlay, OH.
Martin L. Chappell, '58, of Coraopolis, PA.
Robert G. Chopp, '58, of Grand Ledge, Sep. 6, age 82.
James G. Dollaway, '58, of Howell, Mar. 7, age 79.
Jeremiah F. Gendron, '58, of Jensen Beach, FL, Jan. 19, age 81.
Lynn (Campbell) Head, '58, of Arlington Heights, IL, Jan. 1, age 75.
William N. Kritselis, '58, of Alba, Dec. 2, age 80.
Robert J. Minatoya, '58, of Torrance, CA, Nov. 5, age 79.
Pierre J. Renner, '58, of Port Charlotte, FL, Dec. 21, age 78.
Arthur L. Schaldenbrand, '58, of Saline.
Dirilda H. (Sackett) Shankie, '58, of Warren, Jan. 5.
Robert M. Stokes, '58, of Ramsey, IL, Dec. 10, age 75.
Murl H. Webster, '58, of Davisburg, Jan. 8, age 78.
Audra J. (Stark) Chevalier, '59, of Elkhart, IN, Dec. 30, age 76.

James P. Covell, '59, of Auburn, IN, Apr. 27, age 73.
Edmund M. Hibbler, '59, of Lake Orion.
David Levy, '59, of Pittsford, NY, Jun. 2, age 79.
Jack M. McDonald, '59, of Loveland, OH, Jan. 11, age 80.
Perry C. McLellan, '59, of Garden Grove, CA.
George J. Ossorio, '59, of Camden, SC.
Dean A. Verhey, '59, of Fort Lauderdale, FL, Dec. 21, age 81.
Ruth E. (MacKenzie) Vince, '59, of Rochester Hills.
John M. Zimmerle, '59, of Wolverine, Nov. 18, age 73.
Marvin A. Zuidema, '59, of Grand Rapids.

'60s

Allan H. Biefeld, '60, of Albuquerque, NM, Dec. 19, age 73.
Dorothea M. Boehm, '60, of Saint Joseph, Nov. 21, age 91.
Michael E. Bryant, '60, of Tecumseh, Ontario, Canada.
Frances Z. Caldwell-Hubbard, '60, of Springport.
John D. DeMaree, '60, of Boulder, CO, Feb. 26, age 85.
Jack R. Delora, '60, Jan. 11, age 88.
John W. Durham, '60, of Amagansett, NY, Mar. 16, age 74.
Jean E. Hull, '60, of Lansing, Nov. 17, age 89.
Ann A. (Jenkins) Jewell, '60, of Fairfax, VA.
Valdek Maandi, '60, of East Brunswick, NJ.
Forrest W. McGehee, '60, of Laguna Beach, CA, Dec. 6, age 77.
Albert R. Miller, '60, of Meadville, PA.
William G. Monahan, '60, of Morgantown, WV, Dec. 22, age 84.
Edward K. Muraski, '60, of Orange Beach, AL.
Constance M. (Zick) Snell, '60, of Grand Rapids, Feb. 2, age 76.
Margaret A. (Kalder) Spas, '60, of Canton, Nov. 16, age 73.
George G. Bankeroff, '61, of

Amherst, NH, Nov. 8, age 72.
Curtis R. Bearup, '61, of Columbiaville, Dec. 17, age 77.
John J. Bennett, '61, of Palm Harbor, FL, Mar. 25, age 87.
Ronald S. Chew, '61, of Chicago, IL, Jun. 7, age 77.
Frederick C. Daniels, '61, of Plainwell.
James S. Fralish, '61, of Carbondale, IL.
David H. Gasser, '61, of Dayton, OH, Jan. 4, age 76.
David W. Gessford, '61, of Canaan, CT, Jan. 7, age 76.
Philip B. Kleinberg, '61, of Morganville, NJ, Jan. 6, age 73.
James R. Meyer, '61, of Jackson, Dec. 28, age 79.
Hans P. Olsen, '61, of Providence, RI, Oct. 28, age 73.
William G. Pilgrim, '61, of Farmington, NM, Mar. 27, age 72.
Harold R. Ringler, '61, of Holt, Sep. 13, age 81.
Arnold J. Stucky, '61, of Battle Creek.
John H. Wakeley, '61, of Cullowhee, NC.
Dorellen H. (Jenkins) Allman, '62, of East Lansing, Nov. 12, age 85.
Catherine M. Briggs, '62, of Cadillac.
Edward P. Kelbel, '62, of Alanson, Jan. 3, age 74.
Bruce E. McDonald, '62, of Birmingham, Jan. 10, age 72.
Edward H. Merchant, '62, of Union City, Jan. 10, age 75.
James F. Olmsted, '62, of East Aurora, NY, Mar. 24, age 78.
Edward M. Rawson, '62, of Temple, TX, Jun. 6, age 74.
Marshall Rosenthal, '62, of Los Angeles, CA, Jan. 9, age 71.
Walter L. Stump, '62, of Cadillac, Jan. 27, age 84.
Charles G. Unseld, '62, of Stanwood.
Germaine (Churan) Ayres, '63, of Union Pier.
Carol S. (Murphy) Chappell, '63, of Sebastopol, CA, Apr. 15, age 69.
Robert W. Everett, '63, of

Burlington, VT, Mar. 25, age 73.
Laurence E. Green, '63, of Clio, Aug. 12, age 72.
Stephen U. Laza, '63, of Akron, Oct. 22, age 74.
Barbara J. Scheid, '63, of Grand Rapids, Aug. 26, age 69.
Richard A. Shulaw, '63, of Owosso.
James F. Silbar, '63, of Boyne City, Jun. 11, age 71.
Fred Till, '63, of South Whitley, IN, Jan. 15, age 92.
Marvin L. Wardell, '63, of Okemos, Nov. 15, age 71.
Harold E. Warvari, '63, of Niceville, FL, Apr. 3, age 69.
Everett L. Wittmer, '63, of Ocala, FL, Sep. 10.
Joseph J. Zaborowski, '63, of San Antonio, TX, Nov. 29, age 85.
Hermann Nuyken, '64, of Goshen, IN, Sep. 4, age 81.
David A. Podsedly, '64, of Hendersonville, NC, Nov. 11, age 69.
Fredrick W. Wheaton, '64, of Rockville, MD, Mar. 25, age 69.
Jon L. Zaski, '64, of Woodstock, GA.
Robert J. Bouck, '65, of Grand Ledge, Sep. 13, age 69.
Charles M. Donahue, '65, of Jackson, Dec. 30, age 72.
Mabel A. (Chandler) Duch, '65, of Swartz Creek, Jan. 24, age 89.
Samuel M. Hall, '65, of Washington, DC.
Patricia A. (Rice) Horner, '65, of Show Low, AZ, Jun. 3, age 67.
Edward H. Jaeger, '65, of Long Beach, NY.
Edward W. Potter, '65, of Grayslake, IL, Jan. 11, age 68.
Karen S. (Robinson) Riggs, '65, of Key West, FL, Nov. 3, age 69.
Peter G. Rozich, '65, of Grand Ledge, Oct. 30, age 77.
James C. Smith, '65, of Shelby Township, Oct. 30, age 76.
Donald E. Stanbury, '65, of Grand Blanc, Dec. 8, age 85.
Catherine A. Tack, '65, of Detroit, Dec. 3, age 81.
Dennis L. Chapman, '66, of

Severna Park, MD, Oct. 7, age 67.
Flonnie M. French, '66, of Cantonment, FL.
June L. Hart, '66, of Albion, Sep. 21, age 98.
Marlene E. (Steinmetz) Kayne, '66, of Marco Island, FL, Jan. 12, age 71.
Ronald M. Lebarre, '66, of Herron, Jun. 13, age 72.
Archie M. Long, '66, of Canal Winchester, OH, Jan. 24, age 84.
Max H. Schuitema, '66, of Muskegon, Nov. 27, age 68.
Patricia L. (Cesefsky) Shurkey, '66, of Metamora.
John H. Thomas, '66, of Kailua, HI.
Robert R. Thompson, '66, Jun. 16.
Herbert L. Tscheiller, '66, of Haines City, FL, Jan. 20, age 75.
Betty M. Turner, '66, of Katy, TX, Jan. 8, age 86.
Edmund W. Wright, '66, of Dryden.
James N. Busch, '67, of Saginaw, Aug. 28, age 68.
Sandra M. (Anderson) Daniels, '67, of Bath, Oct. 19.
John M. Darscheid, '67, of Marshall, Jan. 7, age 72.
Marilyn J. (Flaker) Detering, '67, of Grand Ledge, Oct. 5, age 66.
Richard D. Fallon, '67, of Cleveland, OH, Jan. 19, age 67.
George E. Hooton, '67, of Troy, Dec. 1, age 86.
Daniel R. Hueni, '67, of Royal Oak, Feb. 13, age 66.
Lee M. (Malcolm) Lenz, '67, of Grand Blanc, Dec. 28, age 66.
Michael H. Mishkind, '67, of Columbus, OH, Dec. 1, age 66.
William B. Moore, '67, of Rockford, IL, Dec. 2, age 66.
Frederick B. Neal, '67, of Islamorada, FL.
Lawrence J. Nichols, '67, of Sarasota, FL, Dec. 14, age 77.
Martha E. (Silvers) Pope, '67, of Lansing, Nov. 11, age 82.
Leon G. Schwartz, '67, of West Palm Beach, FL.
Dale S. Snyder, '67, of Kalamazoo, Nov. 28, age 88.

Donald W. Stewart, '67, of Florence, SC, Nov. 18, age 68.
Thomas L. Baker, '68, of Mount Vernon, OH, Dec. 7, age 69.
Carol D. Burke, '68, of Detroit, Oct. 1, age 64.
Wilford T. Crossman, '68, of Walland, TN, Apr. 1, age 84.
Lawrence J. Emery, '68, of Houston, TX.
Sandra K. (Opperman) Gonzalez, '68, Jul. 2, age 63.
Janice L. Heckroth, '68, of Des Moines, IA, Dec. 15, age 73.
John F. Lodzinski, '68, of Benson, AZ, Nov. 18, age 66.
Ronald L. Miller, '68, of Auburn Hills, Oct. 12, age 70.
Linda D. (Fessell) Patton, '68, of Eaton Rapids, Dec. 11, age 64.
Glenn E. Reynolds, '68, of Frisco, TX, Jan. 2, age 70.
Peter M. Schwinn, '68, of Willoughby, OH, Nov. 23, age 66.
Charles R. Selden, '68, of South Lyon.
Raymond F. Taylor, '68, of Fort Collins, CO.
David G. Tompkins, '68, of Erie, PA, Jan. 8, age 75.
Robert C. Ball, '69, of Spotsylvania, VA, Jan. 5, age 65.
Thomas S. Brown, '69, of Bloomingdale, OH, Jan. 14, age 70.
Terrence J. Carey, '69, of Mount Pleasant, Nov. 11, age 88.
Roger W. Coon, '69, of Berkeley Springs, WV.
Rolando Gonzalez, '69, of Hollywood, FL.
William L. Hawley, '69, of Goshen, IN, Jan. 6, age 64.
John F. McGhee, '69, of Chino, CA, Oct. 18, age 64.
Alfred E. Opubor, '69, of East Lansing, Dec. 2, age 74.
Frederick J. Schmidt, '69, of Saint Joseph, Nov. 8, age 83.
Laurann Schurr, '69, of Mount Pleasant, Nov. 21, age 64.
Edgar E. St. James, '69, of Katy, TX, Dec. 26, age 65.
Theodore C. Stevens, '69, of Lakeland, FL, Dec. 5, age 81.

Lila S. Thaler, '69, of Muskegon, Dec. 15, age 97.
Charles E. Walls, '69, of Jeffersonville, IN, Oct. 23, age 63.
Rudolph West, '69, of Cambridge, MA, Sep. 18, age 72.

'70s

Mary Anne (Tate) Bartels, '70, of Oscoda, Jan. 7, age 68.
Eugene R. Burgess, '70, of Westport, CT, Sep. 28, age 67.
Gary L. Coon, '70, of Seminole, FL, May 30, age 71.
Roger G. Dykstra, '70, of Seminole, FL.
Candis R. (Reddel) Ely, '70, of Saline, May 26, age 63.
Bruce A. Kelly, '70, of Taos, NM, Mar. 11, age 63.
Alvin McChester, '70, of Southfield.
Freeman L. Rawson, '70, of Austin, TX, Sep. 1, age 62.
Toby J. Stadden, '70, of Cadillac, Jan. 8, age 65.
David R. Burrows, '71, of Dahlonga, GA.
Michael F. Garms, '71, of Farmington Hills, Sep. 9, age 73.
Herbert R. Helbig, '71, of Pasadena, TX.
Elden T. Knickerbocker, '71, of Springport, Dec. 11, age 62.
Mary F. Skinner, '71, of Harriman, TN.
Sharon S. (James) Taite, '71, of Northville.
Donald A. Wepfer, '71, of Sarasota, FL, Apr. 6, age 52.
Randolph J. Dubitsky, '72, of Dearborn, Dec. 17, age 61.
Eugene E. Eubanks, '72, of Kansas City, MO, Nov. 20, age 72.
Nicol W. Gordon, '72, of Commerce Township, Oct. 22, age 65.
Nancy C. (Penskar) Hanson, '72, of Bradenton, FL, Apr. 13, age 60.
Walter J. Middlebrooks, '72, of Lansing, Oct. 25, age 62.
Terry H. Schoenberg, '72, of Imlay City.

Steven L. Secor, '72, of Muskegon, Dec. 9, age 61.
Anne M. Baker, '73, of Marshall, Jan. 5, age 60.
Edward W. Cole, '73, of Grand Blanc, Jul. 22, age 60.
Dale E. Dumaw, '73, of Golden, CO.
John E. Ecklund, '73, of Anna Maria, FL, Jan. 20, age 62.
Robert L. Egly, '73, of Marshall, MN, Nov. 8, age 79.
Patricia A. Mattina, '73, of Kelseyville, CA.
Jonathan B. Ricks, '73, of Helena, MT, Jan. 1, age 61.
Eugenia Zerbinos, '73, of Okemos, Jan. 25, age 71.
Patrick J. Burns, '74, of Lexington, KY, Jan. 16, age 59.
Stephen A. Collins, '74, of Detroit, Jun. 9, age 63.
Richard J. Drew, '74, of Grand Blanc, Mar. 27.
Karen S. (Lindstrom) Dutcher, '74, of Flint, Nov. 12, age 59.
Mark R. Hall, '74, of Dearborn.
Bryan F. Holley, '74, of Melbourne, FL, Feb. 17, age 58.
Bruce G. Hudson, '74, of Addison, Nov. 1, age 59.
Saundra L. MacArtney, '74, of Kalamazoo.
Kathryn C. McCoy, '74, of Madison, WI.
Gary L. Randall, '74, of Matteson, IL, Jan. 25, age 60.
A. Arthur Behrmann, '75, of Sun City, AZ, Nov. 8, age 78.
Augustus W. Hutting, '75, of Grosse Pointe Woods, Oct. 10, age 65.
Catherine J. (Potrikus) Reese, '75, of Charlestown, RI.
Edwin J. Salesky, '75, of Lake City.
Frank A. Schaldach, '75, of Hillsdale, Nov. 23, age 59.
Allan M. Alanko, '76, of Freeland, Jan. 24, age 67.
James M. Bender, '76, of Saginaw.
Thomas R. DuPuis, '76, of Taylor.
Shirley A. Key, '76, of Grand Haven, Jan. 21, age 85.
Robert F. MacAlpine, '76, of Oakland Township.

Thomas C. Panian, '76, of Washington, PA, Mar. 29, age 64.
Jeff E. Whalen, '76, of Wichita Falls, TX.
Rose Marie C. Collins, '77, of Melbourne Beach, FL.
John D. Des Rosiers, '77, of Sterling Heights.
Lawrence C. Holaly, '77, of Grand Blanc.
Patrick A. Kivland, '77, of Barrington, IL, Nov. 14, age 64.
Cindy M. Lucas, '77, of Downers Grove, IL, Dec. 31, age 56.
Tito F. Reyes, '77, of Williamston, Nov. 8, age 66.
Harlan W. Frerking, '78, of Hartsville, OH, Nov. 21, age 63.
Virginia J. (Proctor) Wilson, '78, of Moore, SC.
Patricia A. Amidon, '79, of Jackson, Jul. 23, age 77.
J. M. Brennan, '79, of Bloomfield Hills, Oct. 7, age 58.
Kathleen M. (Sweet) Coe, '79, of Lansing, Sep. 25, age 86.
Kevin M. Donnelly, '79, of Lake Stevens, WA.
Mark G. Gaul, '79, of Scottsdale, AZ, Dec. 7, age 55.
Francis M. Goodwin, '79, of Shelbyville, KY, Nov. 12, age 79.
Mitchell M. Zainea, '79, of Grand Rapids.

'80s

Martha H. (Purdon) Hochman, '80, of Lansdale, PA.

David J. Krawczak, '80, of Bay City.
Maria C. Tramontin, '80, of Houston, TX, Dec. 18, age 53.
Julia A. (Sanders) Hanson, '81, of Spring Lake, Jan. 4, age 53.
William E. Heedum, '81, of Livonia.
Barbara A. Burke, '82, of Sun City Center, FL, Oct. 8, age 78.
Shirley J. Obie, '82, of Lawrenceville, GA, Nov. 1, age 52.
R. Ernestine D. Simmons, '82, of Southfield, Dec. 8, age 85.
Cheryl A. Stevens, '82, of Tallahassee, FL, Dec. 10, age 51.
Agatha P. Fort, '83, of Hendersonville, TN.
Robert A. White, '83, of Shelby Township, Oct. 5, age 63.
Julie A. (Kitzrow) Haugen, '86, of Caledonia, Apr. 10, age 46.
Wendy A. Jansen, '86, May 8.
Mary M. Relyea, '86, of Shelby Township, Jan. 20, age 47.
Luana G. Tangeman, '86, of Thailand, Nov. 9, age 66.
Frederick A. Marklevitz, '87, of Groveport, OH, Nov. 10, age 45.
Timothy E. Taylor, '87, of Germantown, TN, Dec. 2, age 46.
Shawn M. Sutton, '88, of Bay City, Mar. 11, age 45.

'90s

Linda A. Phillips, '90, of Flint.
Scott F. Thompson, '92, of Southfield.

Harper Bates, '94, of Portland, OR, Dec. 8, age 40.
Eric J. Ludden, '96, of New Hudson, Nov. 22, age 38.
Joyce C. Whitmyer, '96, of Laingsburg, Oct. 7, age 53.
Kerry L. Buchanan, '98, of Northville, Mar. 5, age 35.

'00s

Dwayne D. Cherry, '02, of Gordonsville, VA, Jan. 9, age 31.
Shirley M. (Cunningham) Enemuoh, '04, of Lansing, Jan. 3, age 56.
Joshua B. Hoffman, '05, of Bloomfield Hills, Nov. 24, age 29.
Joshua R. Sellers, '05, of Farmington.
Darron J. Schneeberger, '06, of Dublin, OH, Oct. 17, age 36.

FACULTY & STAFF

Edna J. (Roosa) Alsup, '32, of Williamsburg, VA, Jan. 4, age 101.
David D. Anderson, '60, of Dimondale, Dec. 3, age 87.
Betty Banner, of East Lansing, Oct. 17, age 79.
August G. Benson, '59, of Naperville, IL, Dec. 4, age 94.
Richard O. Bernitt, '43, of Lansing, Jan. 11, age 90.
Linda M. Catey, of Grand Ledge.
Timothy S. Chang, of Carlsbad, CA.
Patricia J. Cianciolo, of New York, NY, Jan. 18, age 84.
William E. Cooper, '60, of

Mason, Nov. 11, age 73.
Rafael DeLosSantos, of Okemos, Oct. 25, age 88.
Gloria Duncel, of Lansing, Sep. 7.
Bernard F. Engel, of Lansing, Dec. 29, age 90.
Robert B. Hotaling, '52, of Haslett, Oct. 16, age 93.
Theodore R. Kennedy, of East Lansing, Dec. 26, age 92.
John N. Moore, '43, of Portage, Dec. 20, age 91.
Sally L. Murray, of East Lansing.
James L. Page, of Jackson, Nov. 9, age 90.
John A. Penner, of East Lansing.
George A. Petrides, of Williamston.
Stanley K. Ries, '50, of East Lansing, Jan. 21, age 84.
J. M. Scriber, of Cheboygan.
Harold B. Stonehouse, of Chesterton, IN, Dec. 2, age 89.
Dolores A. Strong, of Mason, Sep. 22, age 78.
Sylvan H. Wittwer, of Washington, UT, Jan. 20, age 95.
Shirley M. Yelvington, of Williamston.

MSU was notified of these deaths between Nov. 1, 2011 and Jan. 31, 2012.

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This photo of the Wells Hall bridge evokes visions of “Moon River” as the Red Cedar reflects the evocative night sky.

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