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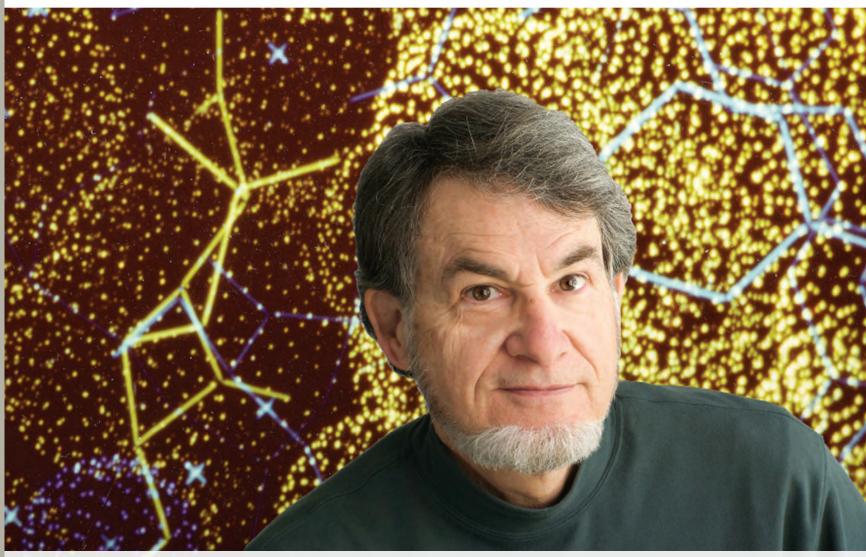
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#### Dodging debris page 25

A PUBLICATION OF THE MINER ALUMNI ASSOCIATION REPRESENTING ALUMNI OF MSM, UMR AND MISSOURI S&T





#### Share your Miner Pride.

"The education is great and the extra opportunities (like Engineers Without Borders) give me real-world experiences I couldn't get by studying in the classroom."

Jennifer Hoffman, AE'11, St. Louis Engineers Without Borders and Missouri Satellite Team Member



Annual gifts from alumni help prepare Missouri S&T students to solve the problems of a technological world. Your contributions help make these experiences possible for current and future Rolla students.

TICS

In Bolivia, Jennifer Hoffman and 11 other S&T students installed slow sand filtration devices, a sedimentation tank and ram pumps to provide clean water to the homes of a community in need.

To learn more about ways to give, or how your gifts impact the lives of S&T students, go to giving.mst.edu or call 800-392-4112

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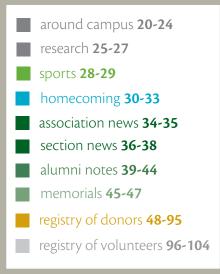
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## Everyday FIEROES

Father. Mother. Brother. Sister. Son. Daughter. Volunteer. Co-worker. Friend. Responder. Engineer. Missionary. Fan. Doctor. Teacher. Visionary. Soldier. Explorer. Builder. ... Whatever name they go by, or title they hold, these are ordinary people doing extraordinary things. They are our everyday heroes.

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*On the cover:* James Knox with a background image of penicillinase, the bacterial enzyme he and his lab mapped from X-ray data. To learn more, see page 11. (Photo by Kim Bova)



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#### From the editor

Megan Kean-O'Brien Design and Production Editor



When does ordinary become extraordinary? When you combine a Missouri S&T education with a heart for making a difference.

The alumni featured in this issue of *Missouri S&T Magazine* have all made sacrifices in some way to make their world a better place. Whether they have given of their time, contributed their finances or swapped lucrative careers to pursue service, these everyday alumni have made the betterment of their respective communities a priority. They continually strive to improve the world by helping others achieve their dreams and goals — even when that dream is as basic as having clean water. In doing so, these alumni have become extraordinary. They have become S&T's "everyday heroes."

As you may have noticed, a special publication was mailed with this issue of the magazine. That publication, *Alumni of Influence*, was 140 years in the making. In it, we feature more inspirational stories. We hope that you will see the book as a testament to the excellence our institution is known for and the outstanding work of our alumni who have helped change and shape our world.

That is perhaps the number one thing I love about this university — its ability to transform individuals. For the last five years, I have heard story after story from students and alumni alike of how S&T has changed them; by giving students the tools for success, inspiring them to reach their individual potential, and turning dreams into reality, thereby allowing graduates to leave their mark on the world.

With this issue of the magazine, I am fulfilling one of my lifelong dreams — becoming an editor. If only my high school English teacher could see me now! But I do owe my dad an overwhelming debt of gratitude for seeing the potential in me and constantly pushing me to be a better writer (rest in peace, Red Pen). I take over for Joann Stiritz, who not only served as the design and production editor for the last four years, but as my mentor as well. I certainly have big shoes to fill, but I hope to continue to make this award-winning magazine the Best Ever. We wish Joann all the best as she joins the civil, architectural and environmental engineering department. We're fortunate to retain her talents within the university family.

#### **Meet Megan**

Here are a few facts about your new design and production editor:

- Soon will be an S&T alum. Megan plans to graduate in May with her master's degree in technical communication.
- Moved to Rolla a little more than five years ago from Sioux Falls, S.D.
- Selected to be part of UCDA's national "40 Designers Project."
- We're still holding out hope to "convert" Megan to cheer for the St. Louis Cardinals. As a new mom, she and her husband named their daughter, Brooklyn, after the Dodgers. But she does cheer for the Blues, so we'll give her that.
- And if school and a baby don't keep her busy enough, she also has two dogs, too.
- Megan has perhaps one of the most diverse music collections in the office, but you wouldn't know that if you stopped by between Thanksgiving and New Year's Christmas music only.
- Ask her anything about reality TV or celebrity gossip. We dare you.

## member benefits

As a graduate of MSM, UMR or Missouri S&T, you are automatically a member of the Miner Alumni Association and are entitled to:

#### **Career Assistance:**

Missouri S&T's career opportunities and employer relations staff will help you in your job search. For information, call 573-341-4343.

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# LaWanda Jones: Meeting the challenge alumn

**LaWanda Jones**, CE'91 (second from left), is not one to shy away from a challenge.

As a student, she handled a rigorous engineering curriculum. As an engineer who progressed into the marketing field, she prevailed over a different set of challenges. And today, as the first female to chair the Chancellor's Advisory Committee on African American Recruitment and Retention (CACAARR) at S&T, she readily accepts a new challenge: to help S&T recruit a more diverse student body.

"There's no doubt an urgency for more technical minds needed to resolve our nation's most pressing issues," says Jones, the corporate marketing manager for ABNA Engineering. "As our population continues to experience a diverse shift, we must do all we can to prepare the next generations with educational opportunities to equip our society with leaders in technical careers."

This past spring, Jones began her term as chair of CACAARR, following **Gregory Skannal**, GeoE'85, who serves on the alumni association board. The committee,

made up of alumni volunteers, advises the chancellor's office on matters related to African American recruitment. Established in the mid-1980s in response to concerns related to campus diversity, early members created a lasting platform and generated a series of scholarships for African-American students. And it's making a difference. Minority enrollment has nearly doubled since 2000.

To build on this foundation, Jones encourages her fellow alumni to support a new challenge, presented by Maj. Gen. **Joe N. Ballard**, MS EMgt'72. Recently, Ballard and his wife, Tessie, donated \$250,000 to create the Ballard Challenge to support more minority students at S&T. A portion of these funds is dedicated to providing \$5,000 matches to encourage other alumni to endow scholarships of their own.

"Through this challenge, we have a unique opportunity to create a legacy which will empower African American talent for years to come," Jones says.

For more information about the Ballard Challenge, contact Greg Harris in Missouri S&T's development office at 800-392-4112 or email gfharris@mst.edu. What

"There is a new emphasis on this feminine ideal of beauty that's emerging in the flapper figure ... this rail thin, flat-chested, smallhipped, almost boyish figure that becomes really the new ideal of feminine beauty during the 1920s."

 Patrick J. Huber, associate professor of history and political science, discussing the 1920s exercise recordings of Wallace Rogerson during a September 2011 episode of the PBS program "History Detectives." "Almost any kid that's interested in science is interested in space science. **So it's a pretty** easy sell."

 Bill Pabst, state 4-H youth expert with University of Missouri Extension office, discussing Missouri S&T's Aerospace Camp on St. Louis NBC affiliate KSDK.

"The reason to come to college is to learn. **The reason to come to S&T is to learn a lot** — to incomparably prepare you for your professional life."

 Selin Acar, a senior in chemistry and president of the Missouri S&T Student Council, during her convocation speech to incoming freshmen.

#### **"Changing the name of an institution is never easy**, but Missouri S&T has provided a model for how to do it successfully."

 Henry Petroski, the Aleksander S. Vesic Professor of Civil Engineering and professor of history at Duke University, in the October 2011 issue of ASEE Prism.

#### by the numbers

#### 11

National rank of S&T's career opportunities and employer relations office among the nation's career placement offices, according to the Princeton Review's *The Best 376 Colleges*, 2012 edition.

#### 16

Scholarships provided by a \$50,000 annual gift from Ameren to increase diversity in engineering. (See story on p. 21.)

#### 12

Universities cited in the July issue of the journal *Nature* for outstanding technical communication degree programs. Missouri S&T was one of the 12.

#### 7,271

Students enrolled on the first day of classes at Missouri S&T.

#### 319

More students than the 2010 first-day total.

#### 215

Number of employers attending S&T's fall career fair Sept. 27.

The night started as one of celebration, as more than 450 seniors received their diplomas from Joplin High School on May 22. A light rain interrupted snapshots of new graduates and forced them to leave the open lawn of Missouri Southern State University for the shelter of their cars. Moments later, the day's joy and happiness turned into chaos as a deadly EF-5 twister ripped through the southwestern Missouri town.

**Randy Ganz**, CE'78, president and CEO of Dewitt & Associates in Springfield, Mo., was at his son's house in Iowa when his phone "lit up like crazy." Hearing about the devastation, he quickly worked with his senior project managers to gather a team and supplies — truckloads of plywood lumber, light-stand generators, and "anything that we thought we'd need that night."

Communications were down to next to nothing. "People didn't understand the real magnitude," Ganz says.

Mercy-St. John's Regional Medical Center, a nine-story building, took a direct hit, blowing out windows, tossing gurneys and mangling cars. Just a half mile away, Freeman Health Systems had lost part of its roof but was still functioning despite the pouring rain.

"We worked to get the roof under control, but we had several of our people doing nothing but transporting and carrying the injured to areas to receive emergency care," Ganz says. "This literally went on for hours as vehicles bringing the injured were lined up three blocks long. As darkness approached, the only lights visible for miles were from the generators at Freeman and the light towers that we had brought to the site."

The rising sun on Monday morning revealed the full extent of the twister's wrath. One-third of the town was gone. With the light of dawn came a call for help from Mercy-St. John's. Ganz and his team responded, securing sensitive information and equipment and placing 8,000 feet of fencing around the entire hospital. Monday also brought with it hundreds of volunteers from around the state, including S&T freshman **Sean Brady** and his father, Ric, of Camdenton, Mo. The destruction they saw along Rangeline Road, Joplin's main drag, was indescribable.

The pair unloaded their Bobcat and got to work — turning cars right-side up, removing trees and debris, and even locating an elderly man's medication and money from underneath a massive pile of rubble. "I will never be the same," Sean Brady says of the experience.

While Brady and his dad were moving rubble, others from Missouri S&T were on their way to Joplin, bringing supplies like water and juice to the Red Cross. Among them were **Haitham Shtaieh**, who works for Chartwells, the university's food service provider, and **Mohammed Debree** of Libya, a graduate student in engineering management.

After their first trip, the volunteer team grew to include members of the newly formed Islamic Help of North America (IHNA), which assists people who are in need, and S&T's Muslim Student Association. The now 10-member group returned to Joplin that Wednesday with more supplies.

"We have had up to 20 volunteers — mostly students from Rolla, Kansas City and St. Louis," says **Ranga Voona** of India, a graduate student in mechanical engineering. "Thanks to the efforts of many generous and hard-working volunteers and non-profit organizations involved, some fast-paced work is going on in Joplin. We all hope it gets back to normal as soon as possible."

(Top right) A volunteer takes a break from his clean-up duties and surveys the damage left by the tornado. (Bottom) A panoramic view of the destruction from 24th Street, between Kentucky and Grand streets. (Lower left) Emergency personnel walk through a severely damaged neighborhood. The tornado moved through much of the city, damaging two hospitals and hundreds of homes and businesses and taking more than 100 lives. (Top left) In this May 22, 2011, Associated Press file photo, a destroyed helicopter lies on its side in the parking lot of the Mercy-St. John's Regional Medical Center in Joplin, Mo. (AP Photos/Mark Schiefelbein)



"People didn't understand the real magnitude." — Randy Ganz, CE'78

"It was like a scene out of a movie that you just couldn't imagine was real. I'm still amazed that there were only a few minor injuries."

- Richard T. Bradley, CE'88, speaking of the St. Louis Good Friday tornado

#### **FIERCE TORNADOES**

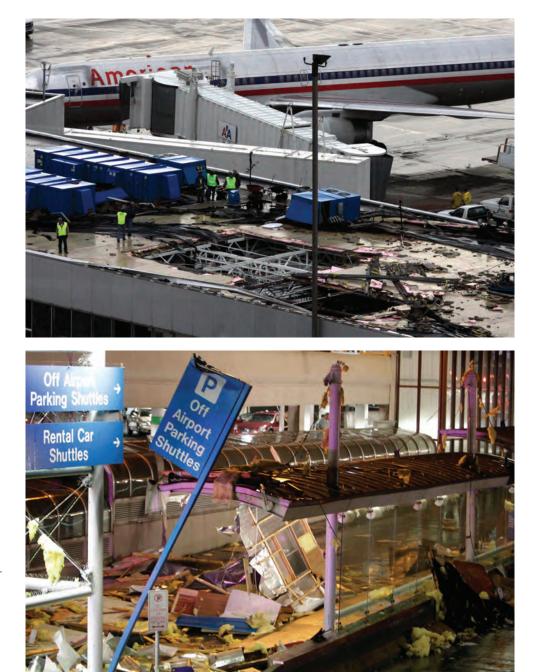
In another part of the state, **Richard T. Bradley**, CE'88, dealt with another tornado, the one that hit St. Louis on Good Friday, April 22, 2011, just weeks before the disaster in Joplin.

"The damage at Lambert-St. Louis International Airport was shocking to see on TV, but nothing close to what I saw when I got out there," says Bradley, president of the St. Louis Board of Public Service, the city's chief engineer, and the airport's former assistant director of planning and engineering. "It was like a scene out of a movie that you just couldn't imagine was real. I'm still amazed that there were only a few minor injuries."

With power off, water coming in throughout the building and significant structural damage, Bradley led a preliminary detailed damage assessment of the facility and mobilized city and airport staff, contractors and consultants to begin immediate cleanup and repairs to get the airport in order and reopened.

Bradley credits his training for helping guide him through the process. "Engineering teaches you the principles, but it also teaches you to think on your feet and make the best possible decision you can for the situation you are given," he says.

(Top) Crews inspect damage to the roof of Concourse C at Lambert-St. Louis International Airport Saturday, April 23. The airport reopened two days after a strong tornado caused significant damage. The airport director says one American Airlines 757 jet sustained significant damage, and four other American planes had minor damage.





At Lambert Airport, the tornado touched down, spewing debris over the airfield, bursting glass in the concourse and damaging cars atop a parking garage. Two days following the tornado, once the power was restored, the airport was operating at 70 percent capacity. Some flights had to be diverted away from St. Louis when the storm hit. (Above) A van hangs over the side of a parking garage. (Left) Storm damage is seen next to a parking garage outside terminal one.

Photos of the airport damage are courtesy of AP Photo/Jeff Roberson

#### Into the danger zone

by Lance Feyh, lfeyh@mst.edu

Recently, while deployed in Joplin, Mo., Steve Winters, PetE'83, was reminded of Sept. 11, 2001. "After the tornado," he says, "the smell of wet concrete dust brought an immediate flashback to the smells in New York."

By day, Winters is the associate director for student information systems at the University of Missouri-Columbia. But he's also a volunteer with Missouri Task Force 1. Managed by the Boone County Fire Protection District, Missouri

Task Force 1 is part of the Federal Emergency Management Agency's Urban Search and Rescue Response System.

The task force uses the skills of people who have expertise in various areas. In addition to using his technical talents to operate "electronic victim detection devices," Winters leads a small team with canine search capabilities.

Winters first heard about Missouri Task Force 1 in 1998 during a presentation at a local meeting of the Optimist Club. He applied and was accepted in 1999.

"FEMA received presidential orders and activated MO-TF1 around noon on Sept. 11, 2001," Winters says. "We traveled by school bus to Whiteman Air Force Base for in-processing. ... We were loaded and flown out of Whiteman in the late evening of Sept. 11 on three National Guard C-130 aircraft."

After arriving at McGuire Air Force Base in New Jersey in the early morning, the team was moved **MU Publications and Alumni Communication** 

Steve Winters, PetE'83, volunteers for Missouri Task Force 1.

into Manhattan. According to Winters, MO-TF1 had boots on the ground at Ground Zero in the afternoon of Sept. 12.

The task force worked continuous 12-hour shifts for the next nine days. Sadly, the last live victim rescued from the rubble in New York was found around 12:30 p.m. on Sept. 12. But Winters and Missouri Task Force 1 aided in the detection, location and recovery of bodies.

In addition to being deployed to New York in the wake of 9/11 and to Joplin following the recent tornado, Winters also spent 16 days in New Orleans after Hurricane Katrina struck in 2005.

#### Managing mosquitoes by Lance Feyh, Ifeyh@mst.edu



Six years ago, after he retired, **Jerry Sellers**, ME'69, got into the mosquito business. "I needed something to occupy my time," says the president and owner of MosquitoZone.

With his wife, Maura, Sellers started the business that caters to industries that deploy workers to places where malaria and other diseases and hazards are common, such as Africa (particularly in Chad) and New Guinea.

MosquitoZone goes to these developing countries to scout potential hazards and then establish procedures for protecting people who will be (or already are) working on a particular site. A team of entomologists is employed to study mosquitoes and "vector-borne tropical diseases," which are transmitted by insects. The company also provides advice about avoiding snakebites and poisonous plants.

Before starting MosquitoZone with his wife, Sellers worked for Conoco for 13 years and then did software work. He ended up getting involved in the mosquito field by accident because "no one else was doing it."

The company has many clients in the oil and gas business, as well as government agencies. In addition to helping prevent diseases and possible fatalities, MosquitoZone tries to ensure decreases in lost worker productivity. Sellers and his wife live in Houston, where MosquitoZone is based.

#### Answering the call

by Mindy Limback, limbackm@mst.edu

The peace and quiet is broken by emergency sirens. Soon the distant thump of a medical helicopter gets louder. In communities across West Tennessee, paramedics arrive on the scene and administer life-saving care taught by **Gerald Foon**, ME'74.

For nearly 40 years, Foon has taught more than 1,000 paramedics and emergency medical technicians (EMTs) at Southwest Tennessee Community College, formerly known as Shelby State Community College in Memphis.

"I was fortunate to get in on the ground floor of a new profession," he says. Prior to the 1970s, emergency medical transportation was often provided by funeral homes, with little or no medical care being administered.

After receiving his engineering degree from Rolla, Foon moved to Tennessee and enrolled in Southwest, which was offering the state's first paramedic program. After finishing his courses in 1975, he was asked to join the college's faculty. In addition to teaching, Foon worked as a flight paramedic with the Memphis Police Department Helicopter Aviation Unit until 1984.

Currently an associate professor at Southwest, Foon previously served as chair of the college's emergency medical technology department from 1978 to 1998. Under his leadership, the paramedic program became the first in the state and the 14th in the country to receive national



Associate professor Gerald Foon (left) demonstrates life-saving techniques on a simulator dummy for students in the paramedics program at Southwest Tennessee Community College.

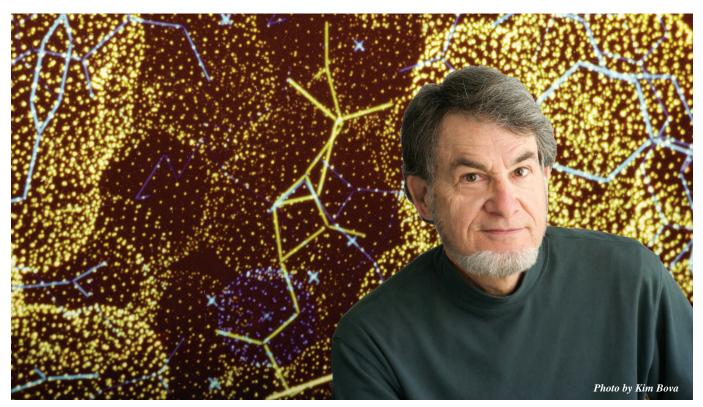
accreditation from the Committee on Accreditation of Allied Health Education Programs.

The Tennessee Emergency Medical Services Education Association recognized Foon with a lifetime achievement award in 2004.

"My calling in life was not to be an engineer, but what I learned at Rolla helped me understand the treatments, new technology and procedures needed to teach my paramedics how to save a human life," he says.



Society's widespread use of antibiotics often causes bacteria to genetically mutate to survive, creating antibiotic-resistant bacteria that can be deadly. But decades of research by **James Knox**, Chem'63, has given pharmaceutical companies vital tools to help them design new antibiotics or re-engineer old ones these resistant bacteria can't elude.



James Knox with a background image of penicillinase, the bacterial enzyme he and his lab mapped from X-ray data.

A professor emeritus of molecular and cell biology at the University of Connecticut, Knox has spent his career illuminating these microscopic enemies. In the 1980s and '90s, the research he conducted in the X-ray diffraction laboratory at the university's Institute of Materials Science was the first to show penicillin bound to its bacterial target enzyme. His research was also the first to establish the molecular structure of other enzymes that provide penicillin and vancomycin-type antibiotic resistance. Knox says investigations were published in the journal *Science* and were covered by major news organizations. They led to more than 100 invitations to speak around the world.

Knox says his molecular images continue to be used by pharmaceutical and academic scientists to understand antibiotic action and mutational changes, and to design new antibiotics.

"In the old days, it was trial and error — just testing whether a chemical killed the bacteria or not," Knox says. "Now we can get an atomic-level picture of the enzymes' molecular structure, then the drugs can be rationally designed to interact with them."

His archived X-ray data and enzyme structure images are available for free from the Protein Data Bank. "They'll still be there in 100 years," he says. "As their methods of analysis grow, scientists and chemists will have new ways of using our basic data in their design of future antibiotics." When he eventually made it out of the danger zone that day, **John Allen** went looking for a British ship — because they had the good scotch. Like many in his generation, he's reluctant to talk about it. The last thing Allen wants to do is make a big deal about his role in the invasion. "I just happened to be one of the guys who lived through it," he says.

He's referring to Normandy, of course. D-Day. On the morning of June 6, 1944, Allen, GGph'42, MinE'47, was in one of the first boats to reach the coast. His job was to help place charges that were designed to blow up the underwater barriers the Germans had rigged along the shoreline. If Allen and the other demolitions guys were successful, the allied forces still out in the channel would have a much easier time making land. With the beach in sight, Allen and his crew waded the remaining distance. Apart from the explosives they were carrying, he doesn't remember for sure if they were even armed. "We had one job to do," he says.

Meanwhile, Air Force planes had been relentlessly targeting the Germans, who were up on the cliffs; and, for a while, it looked like things might go really well. But, as things turned out, there would be plenty of resistance, lots of artillery raining down. In the most dangerous of situations, Allen and his explosives partners, 10 of them, did their job that Tuesday morning. They placed their charges and helped clear the way for the allies to reach the beaches of Normandy. Eight of the 10 people Allen was working with were wounded or killed in the process.

After the war, Allen came back to Rolla on the G.I. Bill. He already had one degree — this was where he got his explosives experience in the first place. But he had a met a "Rolla girl," so he pursued a second degree in mining engineering. With that diploma in hand and a new wife, Helen "Chili," Allen went back to the mines for a while and then returned to military life. He became a career officer in the Navy, putting in more than 20 years.

Stationed for a time at Pearl Harbor, Allen was the resident officer in charge of the construction of the Arizona Memorial. As is the military custom, the family went from assignment to assignment and place to place, including Turkey, where Allen helped build-up post-war facilities.

After retiring from the Navy as a commander, Allen took a position with an architectural engineering firm based in Los Angeles, directing overseas contracts in 17 countries.

Eventually, Allen and his wife came back to Rolla for good. Now in his 90s, Allen is into aquaculture (fish farming) and alternative sources of energy (he's been studying liquid fluoride thorium reactors). He follows what's happening on campus. And he still enjoys a good scotch.

Allen doesn't mind talking about the places he's been and ideas that continue to intrigue him. In fact, he enjoys the conversation. But he wants you to know that he didn't do anything special on that day off the coast of France, that he was one small part of a very big effort. Getting this point across is very important to him. "I just happened to live through it," he insists.

#### "I just happened to live through it." — John Allen, GGph'42, MinE'47

John Allen, GGph'42, MinE'47 (at top), and the demolition team, Allen's Stormy-Tetryls, are photographed with their commander. Allen (at right), in his Rolla home ... sans scotch.







Dennis Sugrue, GeoE'04, teaches environmental engineering at West Point.

#### More than just a war

by Mindy Limback, limbackm@mst.edu

Maj. **Dennis Sugrue**, GeoE'04, learned an important lesson during his time in Afghanistan — engineering projects can solve social problems, but only if they maintain a community's social balance.

Sugrue deployed in January 2006 with the 3rd Brigade Combat Team, 10th Mountain Division, for a 16-month tour in Afghanistan to establish relationships with the people living in the country's rugged and mountainous northeastern region.

"As remote as it was, they had common concerns with water, electricity and roads," Sugrue says.

A few of the villages sat on the "hair-raising" main road, bordered by cliffs on one side and a raging river on the other.

"We would assess and prioritize village needs by working closely with their leaders," Sugrue explains. During his time in Afghanistan, he worked on several water distribution projects, micro-hydro power generators and road improvement projects.

Today Sugrue is an environmental engineering instructor at West Point, where he teaches seniors how their engineering projects are really solutions to social problems.

"It's important to not disrupt the social balance in these complex societies," he says. "Sometimes we do more harm than good in trying to address their problems. If that becomes the case, you probably haven't bettered the situation."





Greg Wayne, EE'79, co-founded an organization that provides home repair for those in need.

Before there was "Extreme Makeover" on national television, the Kansas City area had HopeBUILDERS Home Repair, a volunteer organization that does everything from changing light bulbs to installing wheelchair ramps to whole-house rehabilitations. The group, co-founded by **Greg Wayne**, EE'79, started as an outreach ministry of a collection of churches in 2000. Volunteers do most of their work on Saturdays.

"Thousands of volunteer hours have been donated to help hundreds of homeowners stay in their homes longer and live more comfortably," says Wayne, who now serves as operations director. "Many of the homes we work on have dilapidated porches, steps, windows and doors, and are badly in need of weatherization measures."

Wayne points to the case of an 80-year-old mother living with a

daughter who has a chronic disease. The daughter had fallen in the tub of their bathroom. HopeBUILDERS did a complete bathroom remodel for them. "I am always amazed when we first visit a client, and they're surprised that we even showed up," Wayne says. "They seem to be conditioned to being ignored or forgotten. I am moved when clients start crying as we finish a project, overwhelmed with gratitude." According to Wayne, the homeowners have often been cited by county code enforcement authorities because they are unable to correct the dilapidated conditions — physically or financially. HopeBUILDERS works with the authorities to address the issues.

Today, the group draws volunteers from area churches, community groups, corporations and professional organizations. They serve the fourcounty Kansas City metro area.

"The well-rounded education I got at Rolla has opened many doors for me, including my present professional function as a project manager of major projects and serving the community in a similar capacity to lead this organization," says Wayne, who works for Black & Veatch's energy division.

## Black gold, green Gulf

"We have some world-class tools in place to alert us if we are out of compliance and are always looking for new and improved ways to keep the Gulf safe."

— John Hoffman, MinE'80

In 2007, two years after Hurricane Katrina hit New Orleans and three years before the Deepwater Horizon oil spill in the Gulf of Mexico, **John Hoffman** started Black Elk Energy, an oil company that strives to be eco-friendly.

Prior to starting Black Elk, Hoffman worked for Amoco Production Co. and other energy companies. "Black Elk stringently assesses technical information to protect against potential risks as part of our acquisition strategy," Hoffman recently told Rigzone, an industry news organization. "Our approach extends the economic life of fields and delivers a greater volume of reserves to the U.S. energy market. ... We have some world-class tools in place to alert us if we are out of compliance and are always looking for new and improved ways to keep the Gulf safe."

Hoffman, MinE'80, has also started "Save the Blue," an initiative to protect and preserve ecosystems in the Gulf. As part of this initiative, he has met with members of Congress to discuss bills that would protect the reef ecosystems that form on offshore oil and gas platforms. "It's been documented that each platform has 10,000 to 30,000 fish and mammals that use the ecosystem as a habitat," says Hoffman, who is an avid scuba diver. "Is it right that we should destroy these ecosystems?

"I would say that the Gulf of Mexico is one of the few places on earth where the health of the environment is so obviously linked to the community and economy."



(Far left) High Island 571, one of Hoffman's oil fields in the Gulf of Mexico. (At left) Hoffman, president and CEO of Black Elk Energy, gives an interview and answers questions about his company and "Save the Blue," his initiative to protect and preserve ecosystems in the *Gulf.* (*Bottom left*) *Underwater* photos provide a glimpse of the coral life. The endangered black coral has found a new home by attaching itself to oil and gas platform structures, as seen in the far left photo. Other corals, such as the bryzoa and tubestra (at left), are also flourishing.

Photos were submitted by John Hoffman.

by Mary Helen Stoltz, mhstoltz@mst.edu  In 2004, **Jerry Rich**, EE'74, took early retirement from a 30-year career as an electrical engineer with Eastman Chemical Co. and went back to school to become a teacher. After a couple of prerequisite courses at a local technical college, Rich entered a "career changers" program at the University of South Carolina. His first year of teaching was 2006.

"This is my sixth year of teaching fourth grade at White Knoll Elementary," Rich says. "I teach math and science and like to think that I am training future engineers."

Before Rich retired from engineering, his sister lent him a book by Bob Buford titled *Halftime: Changing Your Game Plan from Success to Significance.* 

"I read the book and realized that, in the eyes of many people, I had probably been fairly successful," Rich says. "But was I really significant in the lives of others? After a couple of years of contemplation, the opportunity to make a change led me to pursue a teaching career."

Teaching is in Rich's blood. Both of his parents were longtime teachers. His mother began her career in a one-room country school that housed eight grades. In high school, Rich took a science class his dad taught.

Rich prefers to teach elementary grades — a time, he believes, before disciplinary problems keep kids from learning.

"I decided that younger students have not yet learned how to misbehave, and maybe that is where I belonged," Rich says.

In his spare time, Rich runs — a lot. Later this year he plans to run the Kiawah Island Marathon in South Carolina. It will be his 52nd.

"A friend of mine told me that when you turn 40, your body begins to fall apart," Rich says. "I refused to believe that and decided to do my best to prevent it. So far, I have run 51 marathons. One in each state and one in Washington, D.C."

All that running seemed like a natural progression for Rich.

"In 1993, I took a little trip around 48 states and managed to go inside all the state capitol buildings as well as Washington, D.C.," Rich says. It was a 15,000-mile journey that took a month to complete.

"Years later, the idea of running a marathon in each state seemed to be a natural (at least to me) follow-up," he says. "I made sure to visit the capitol



Jerry Rich, EE'74, in his classroom.

buildings when I ran my Juneau, Alaska, and Honolulu, Hawaii, marathons."

Both running and teaching help Rich find significance in his life.

"The most rewarding part of teaching," Rich says, "is when a struggling fourth grader looks up at me after a one-on-one math session, smiles, and says, 'Oh, now I get it."

When he began his quest for significance, Rich set a goal of teaching for five years. At the end of that five, he decided he could survive five more years.

"I guess that gives me four more years to determine my next career," Rich says. "Real retirement, whatever that is, is probably not one of the options. Fourth graders help you stay young."

## Minor league summers

by Lance Feyh, lfeyh@mst.edu



A big fan of St. Louis Cardinals baseball, **Helene Hardy Pierce**, EMgt'83, was very excited when, after moving to New Jersey, she found out the Cardinals had a Single-A Short Season team that played at a minor league stadium 10 minutes from her home. During the first game she attended with her husband in 2002, the team announced over the public address system that it was still looking for host families. "We called, and a day later, three guys moved in," Pierce recalls. "The following year, there were four players."

Pierce and her husband, Riley, hosted players for nine summers. This is the first year without a local team, but Pierce thinks a new one will come to the area in 2012.

"More than 50 players stayed in our home during that time," says Pierce, who is vice president of technical services, codes and industry relations for GAF, a large roofing manufacturer. "The team knew we were flexible. New players would often just show up at our house until their own host family arrangements could be made." One player from the Dominican Republic even moved his wife and their two young children into the home for three weeks.

Although major league players make huge salaries, and high draft picks get big bonuses, most minor leaguers exist on meager wages. Odds are they'll never make it to "The Show" (Major League Baseball). Pierce and her husband never charged their guests rent, and they kept the pantry full.

Pierce cooked on Saturdays and Sundays, when the team was in town. Word got out that she knew how to barbecue a brisket, or bake lasagna, pies, cakes and cookies — and "extra guys" were liable to show up.

"It was actually a match made in heaven because I could also bake and they devoured anything I made," Pierce says.

One of the players who showed up at the house was Brendan Ryan, who played for the St. Louis Cardinals from 2007-2010 before moving on to the Seattle Mariners. "He was a very nice young man," Pierce says. "Many who played with him are still happy that he made it because he was never an ego guy.

"Everyone who lived in our home was gracious and kind, realizing that we had opened it to them, and they respected that," says Pierce. "And over the years, we've stayed in contact with many of 'our' players. Out of the clear blue, we'll get a phone call or text message, just to say hello."

The 2008 Sussex Skyhawks (far left) pose for a team photo on their home field at Skylands Park in Augusta, N.J. The Skyhawks, a St. Louis Cardinals affiliate, was part of the independent minor baseball league Canadian-American Association of Professional Baseball (Can-Am League). The franchise ceased operations after the 2010 season when the team's lease on Skylands Park ended. This was the first time in 10 years without a local team in the area, but hopes are high that a team will return to the area for the 2012 season. (Center) Helene Hardy Pierce, EMgt'83, poses with minor league baseball player Candido "Candy" Martinez in this 2006 photo taken just after the season ended. Pierce has remained in contact with many of the players she has housed. She and her husband often refer to those players as "our" players. (Above) Pierce in her kitchen looking through her scrapbook collection of articles. She has collected a multitude of memorabilia from over the years, including a collection of signed baseballs, bats, helmets and bobble heads.







#### **ENGINEERING WITH A MISSION**

by Mary Helen Stoltz, mhstoltz@mst.edu

**Sarah Young** is on a mission from God. Young, CE'94, is a project developer for Engineering Ministries International (EMI), a non-profit Christian development organization that serves the poorest of the poor in developing countries. Since its founding in 1982, EMI has worked on more than 800 relief and development projects in 80 countries.

This past fall, Young began her 25th project with EMI — leading a team of volunteers from the United States, India and Singapore to North India to begin designing plans for a seminary that will eventually house 300 students. While she was there, she followed up on a 2010 project — improvements to a water system for a school that serves disadvantaged children.

"I also visited a WASH Program (WAter, Sanitation and Hygiene) I helped start back in 2007," Young says. The program has helped provide wells and toilets for families in 20 villages.

"That has been my favorite project," Young says. "My dream all along has been to help people in North India get access to clean water and sanitation."

EMI works with thousands of volunteers around the world with a staff of around 40 professionals. As one of those staff members, Young is responsible for raising support to pay her own salary.

"My employer is not only EMI, but also about 40 families, individuals and churches who care about the work that I'm doing and want me to give from my skills to help those in need," Young says. "I spend quite a bit of time communicating with those who support me, not just to report on the work, but to build our relationships.

"It's like being part of a big family," Young says of working for EMI. "Since we are a faith-based organization, we are concerned about the development of people, so that they can live in a way that glorifies God in their work, families and personal lives."

Sarah Young, CE'94 (top), led her 25th project for Engineering Ministries International this year. (Center) Young takes notes while being shown the water and sanitation system. Young's dream has been to help the people of Northern India gain access to clean water and better sanitation. (Bottom) Young meets with local villagers.

"That has been my favorite project. My dream all along has been to help people in North India get access to clean water and sanitation."

— Sarah Young, CE'94

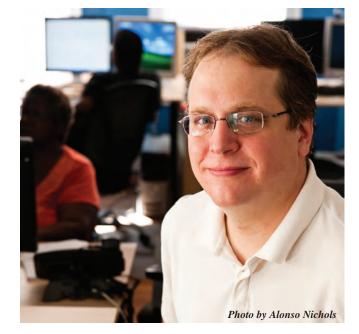


When he was president of the Student Council at S&T, **Andrew Sears**, EE'95, leveraged technology to connect student governments all over the country by forming the National Student Government Internet Headquarters, an online resource for information exchange. Today, Sears is still using the Internet to connect people — but on a greater scale, and for a greater purpose.

"If the Internet can be used to connect millions of buyers and sellers, then why can't it be used to connect the resources of the world to help the poor?"

- Andrew Sears, EE'95

Andrew Sears, EE'95, connects thousands of volunteers and interns with social service projects across the nation through TechMission.



As the executive director of TechMission, a Boston-based non-profit, Sears connects thousands of volunteers and interns with social service projects across the nation. The organization also operates City Vision College, which offers online courses and bachelor's degrees in urban ministry, addiction studies and nonprofit management.

By harnessing the power of the Internet, Sears hopes to tap into "the largest social network in the world" — 2 billion Christians — to help eradicate poverty.

"If the Internet can be used to connect millions of buyers and sellers," says Sears, "then why can't it be used to connect the resources of the world to help the poor?" Merging technology with spiritual matters is a passion for Sears, who approaches social justice issues with an entrepreneurial flair. He founded TechMission in 2000 with its first program, the Association of Christian Community Computer Centers, or AC4. Through AC4, Sears focused on trying to bridge the so-called "digital divide" between the technological haves and have-nots. The organization provided computers and training for hundreds of Christian community centers, mostly in urban settings.

Through that experience, Sears discovered deep-seated issues that computer hardware alone could not solve. "There's a more fundamental educational gap beyond the digital divide," he says. "If people can't read, they're not going to be able to use a computer."

That's when he set about using technology for "connecting people with the poor," in the words of TechMission's tagline.

Last year, Sears' organization connected 13,630 volunteers with more than 5,000 ministries and social service agencies through a volunteer-matching website called ChristianVolunteering.org and TechMission Corps, which is an AmeriCorps urban internship program.

But by combining his passions for technology and service to the poor, Sears discovered his true mission.



#### - 10 YEARS LATER

History will look at the 10 years since the terrorist attacks of Sept. 11, 2001, as a period of "breathtaking American ignorance" on the part of the nation's leaders, offset by tremendous adaptability among U.S. military personnel, says **John C. McManus**, a military historian at Missouri S&T.

"From the broader view, the same Wahabbi-oriented terrorists who attacked on 9/11 were actually at war with the United States long before that terrible day," says McManus, an associate professor of history and political science at S&T.

He says the struggle dates from the early 1970s when Islamic terrorists began to hijack planes.

#### SEPT. 11, 2001, WAS JUST THE WAKE-UP CALL.

#### John C. McManus

"For 25-plus years there were incidents of varying seriousness, from the bombing of the Marine barracks in Lebanon in 1983 to the *Achille Lauro* to the 1993 World Trade Center bombing," McManus says. For most of that time, the United States was fixated on the Cold War or the erroneous belief in the 1990s that the post-Cold War world was no longer dangerous. Sept. 11, 2001, was just the wake-up call. McManus says the events of 9/11 led — directly or indirectly — to two protracted wars that demonstrate the limits of American power and technology. They also show that most wars tend to devolve into insurgencies, particularly in an age of superpowers.

"Napoleon learned this in Spain and Russia," McManus says. "In our Civil War, the North may have won the conventional struggle but it lost the guerrilla struggle we now call Reconstruction. The 'weaker' side can always find a way to fight back, provided the will is there.

"I think future historians will marvel at the breathtaking American ignorance on the cusp of both 21st century wars, along with the equally breathtaking ability to adapt, innovate and succeed on the part of our military personnel," McManus says.

"Churchill once said of the fighter pilots who won the Battle of Britain: 'Never was so much owed by so many to so few.' I think the same should be said about those very few Americans who have served in Afghanistan and Iraq. They comprise a tiny portion of our population, yet they have assumed an incredible burden and they have achieved varying levels of success. I personally believe that, without them, we would have been attacked repeatedly in the last decade."

A member of the Missouri S&T faculty since 2000, McManus is one of the nation's leading experts on the history of Americans in combat. His latest book, *Grunts: Inside the American Infantry Combat Experience, World War II through Iraq*, illustrates how American troops on the ground, the "grunts," have proven to be the crucial difference between victory and defeat despite the U.S. military's reliance on technology in modern warfare.

S&T students held a candlelight vigil at the Havener Center to commemorate the 10th anniversary of 9/11.



#### Engineering diversity



Pictured left to right: Steve Parks, EMgt'82, supervisor of diversity for Ameren; former Chancellor John F. Carney III; Tom Voss, EE'69, Ameren chair and CEO; and Sharon Harvey Davis, director of diversity for Ameren.

Since 2000, Missouri S&T's minority science, technology, engineering and mathematics (STEM) enrollment has increased by 124 percent and female enrollment has increased by 53 percent. A new program established by Ameren aims to raise those figures even higher.

The Ameren Diversity in Engineering Scholarship Program will draw female and underrepresented minority students with financial need into engineering and computer science fields.

"A partner with Missouri S&T for many years, Ameren understands the importance of developing a diverse workforce by creating opportunities for a range of young people interested in pursuing engineering and computer science careers, particularly those who have historically been underrepresented in these fields," says **Thomas R. Voss**, EE'69, president and CEO of Ameren. "Missouri S&T is the perfect partner to help us create a more diversified engineering workforce."

The Ameren gift will also create a professional development program that will match scholarship recipients with corporate mentors who will provide guidance to the students in their academic careers. The program shows the importance of building diversity in engineering and computer science fields.

A recent study by the American Society for Engineering Education and *The Chronicle of Higher Education* found that minority college students represent the only student growth market in the next 20 years, but of all U.S. engineering students, fewer than 6 percent are African-American, 8.1 percent are Hispanic and about 2 percent are Native Americans or Hawaiian Pacific Islanders.

The study also found that while 57 percent of all U.S. college students are female, fewer than 18 percent of engineering students are female. S&T's average is slightly higher at 22.4 percent.

## Top corporate partners

Missouri S&T benefits from partnerships with many corporations. But there are a select few companies whose connection with the campus is unrivaled. These are the companies that hire our graduates, invest in the university and support research. Their employees are active on campus, and Missouri S&T often provides continuing education to their workforce.

Recently, Missouri S&T's Corporate Relations Team, made up of senior campus leaders, selected S&T's 2011-2012 top corporate partners based on three years of data on four criteria: hiring, donations to campus, research expenditures and number of alumni employed.

#### Twelve companies top the list:

Ameren Anheuser-Busch The Boeing Co. Caterpillar Chevron Deere & Co. ExxonMobil General Electric General Motors Halliburton Monsanto Sprint Nextel

S&T appreciates all these companies do and is glad to provide great services to them. To find out more about what S&T can do for your company, contact Mary Bird at 573-341-6596 or mbird@mst.edu.

For more information about our corporate partners, see page 90.

#### Sharing the vision: Liou and Midha

On Sept. 1, **Frank Liou**, professor of mechanical and aerospace engineering, became the Michael and Joyce Bytnar Professor of Product Innovation and Creativity. On the same day, **Ashok Midha**, professor and former chair of mechanical and aerospace engineering, became director of the Missouri S&T Product Innovation and Creativity Center (PICC). The pair will work closely to integrate product design and innovation into the department's curriculum.

It's a vision that's shared by **Michael**, ME'68, and **Joyce Bytnar** of St. Louis. Michael Bytnar is a retired president of Nooter Corp. of St. Louis. The Bytnars provided funding for the two S&T positions.

"The Bytnar Professorship is a unique opportunity to extend the department's vision for design education and to further establish the Missouri S&T program as a national leader in mechanical engineering design education," says **Warren K. Wray**, interim chancellor. "Dr. Liou has extensive design experience, and this position will allow him to further focus the department's efforts."

Liou, who also serves as director of the interdisciplinary manufacturing engineering program, will implement the department's design philosophy throughout the mechanical engineering curriculum and the design content courses, teaching graduate and undergraduate courses, and evaluating the department's design education to bring national recognition to the campus. He will also work closely with Midha.

Located largely at the center of Toomey Hall, Missouri S&T's mechanical and aerospace engineering complex, the PICC gives students a place to enhance their leadership, teamwork and communications skills while tackling real-world, hands-on design engineering projects, Midha says. The center houses a presentation hub, design studio, prototyping loft, CNC machining center, conference room, rapid prototyping lab, multimedia conference and presentation room, fabrication corner, student machine shop, and an office for the department's graduate teaching assistants.

"The PICC is a vital link in the educational process of Missouri S&T's mechanical and aerospace engineering students, providing our graduates with the confidence and skills necessary to succeed in private industry," says Wray. "Dr. Midha's longtime service as chair of the department, and his leadership and vision in the area of design education, makes him an ideal candidate to lead this facility."

#### The Product Innovation and Creativity Center gives students practical, hands-on design experience.



#### S&T welcomes new Jones Chair



**Kamal H. Khayat** is the new Vernon and Maralee Jones Chair of Civil Engineering. Khayat was also named director of the Center for Infrastructure Engineering Studies and the Center for Transportation Infrastructure and Safety at Missouri S&T.

Khayat specializes in the development of high-performance cement-based materials for structural applications and rehabilitation projects. He focuses on self-consolidating concrete and high-performance concrete behavior.

Khayat earned his Ph.D. in civil engineering from the University of California at Berkeley. Prior to arriving at S&T this fall, Khayat was director of the Center of Excellence on Concrete Infrastructure Engineering at the Universite de Sherbrooke in Canada. He was also head of the Integrated Research Laboratory on Materials Valorization and Innovative and Durable Structures at Sherbrooke.

**Vernon**, CE'53, and **Maralee Jones** endowed the chair in 2006 after making numerous contributions to Missouri S&T. Vernon Jones is the former president of Williams, an energy and communications conglomerate in Tulsa, Okla.

Missouri S&T honored the community's cultural diversity with Chinese dragons, dancers, traditional food and crafts, and camels during the 2011 Celebration of Nations.

1







#### Helping East Africa

**Dan Oerther** wants to help East Africans help themselves. He is working to bring clean water, food and income to an area that is suffering from the worst drought in decades.

As the John and Susan Mathes Chair of Environmental Engineering at S&T, Oerther has spent the last five years with his wife, Sarah, a registered nurse, working on projects to benefit the area.

"We've been working with the Luoa tribe in Tanzania and are now starting projects with the same tribe in Kenya," he says.

The Oerthers completed a water project in Kenya and returned to the country this past summer with **David Hackney**, a senior in civil engineering, to spend three weeks establishing the Pula Cloud project there. This income-generating project is a collaboration with a doctoral student at the University of Cincinnati and Missouri EDGE, a company owned by Sarah Oerther. Pula Cloud provides villagers with computers so they can sort through 40,000 images from a medical database to narrow them down for a researcher.

"Computers can't process these images like a human can," says Oerther. "And the researcher doesn't have time to go through all those images. We'd like to start a similar project in small communities near Rolla that need income generation as well."

Another project in Kenya, the Nutrition Partnership, will teach animal husbandry to widows. "Widows will learn to raise chickens for eggs, and the meat will be given to the schools to



**Dan and Sarah Oerther** 

improve nutrition," says Oerther. The Oerthers will lend the funds for the chickens and associated capital, and have begun fundraising for a school lunch program.

Oerther is confident the projects in Kenya will be as successful as the ones in Tanzania. "The village in Tanzania now provides its own clean water," he says. "The Roche Health Center we started has a full-time doctor and several nurses. Diarrheal diseases and childhood mortality are down, and the nutrition program has improved students' health, academic performance and school attendance by 25 percent."

#### **Briefly**

**Shamsher Prakash**, professor emeritus of civil engineering, was named a Distinguished Member of the American Society of Civil Engineers, the society's highest accolade.

**Glenn Morrison**, associate professor of environmental engineering, was elected to the International Society of Indoor Air Quality and Climate Academy of Fellows.

For the second year in a row, the **Experimental Mine** — home to a popular summer Explosives Camp for high school juniors and seniors — tops a list of "Awesome College Labs" as determined by *Popular Science* magazine. The rankings appear in the magazine's September 2011 issue.

**S&T students** demonstrated environmental technology as part of the "Show-Me the Green: Conservation, Energy and Innovation" event at the Missouri State Fair in August using a model wind farm and a solar thermal collector.

Thanks to a \$58,000 grant from the University of Missouri System eLearning initiative, three **technical communication programs** are now available online — the master of science degree, graduate certificate and graduate minor. The program includes 10 courses for a total of 30 credit hours and will be taught using the university's Blackboard interface. There will also be live online meetings, and video and audio components. Working on this project are **Ed Malone**, associate professor of English and technical communication and director of the department's online program, **Kathryn Northcut**, associate professor, and **David Wright**, assistant professor.

**Missouri S&T is again classified** as a research university with high research activity by the Carnegie Foundation for the Advancement of Teaching and will again be included in the *U.S. News & World Report* annual listing of national colleges and universities. S&T was omitted from the *U.S. News* 2012 ranking because of a change Carnegie made in 2010 moving S&T's classification to "specialty" engineering based on the percentage of engineering graduates. S&T was not notified of the change.

## research

#### Dodging debris

**William Schonberg** says academia is cool because you usually get to research what you're really curious about. The chair of civil, architectural and environmental engineering likes to study high-speed impacts — specifically, those caused by space debris.

Schonberg was a member of a National Research Council committee that recently issued a 180-page report warning about the dangers of space debris.

One of the first "hits" was on a space shuttle in the early 1980s, when a very small piece of paint hit one of its windows. Now, low-Earth orbit is becoming increasingly cluttered by trash.

The large stuff — rocket boosters and so on — typically ends up falling back down and burning up in the atmosphere. But smaller projectiles continue to race around the planet and cause problems for astronauts and engineers. Schonberg studies the amount of damage that could be caused by potential impacts.

"We can track almost anything four inches in diameter and larger," says Schonberg, who first got involved in this type of research at the University of Alabama in Huntsville, which is located near NASA's Marshall Space Flight Center. "There are risk assessments performed before each NASA mission." In recent years, evasive actions to avoid such projectiles in space have been more common.

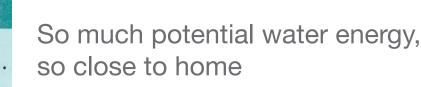
As more and more rockets, shuttles and satellites have been launched, low-Earth orbit has been polluted by junk. In addition to high-tech stuff that is just left in orbit, even frozen human waste that was jettisoned years ago poses problems. "We're talking about projectiles that travel at around 18,000 miles per hour," Schonberg says.

And that's to say nothing of potentially even more dangerous natural objects, like meteorites and asteroids.

Of course, with the end of the U.S. shuttle program, not as many American astronauts will be put in harm's way. But the International Space Station is still colonized, and Schonberg thinks humans will continue to explore space. "I hope so," he says. "It's human nature to explore."

In the meantime, scientists will have to continue to monitor space junk closely. It's not currently plausible from a cost perspective to clean up all the stuff circling our planet.





Missouri has more than 3,000 miles of rivers and **Rajiv Mishra** wants to use them to harness energy and decrease dependence on power currently derived from coal and nuclear plants.

Mishra thinks the ancient past and the modern present are converging in some ways. "In the past," he says, "we prayed to the sun god, to the wind god and to the water god. Now we are back to that point."

Mishra, former Curators' Professor of materials science, is talking about the three primary sources of renewable energy that Mother Nature produces naturally. Unfortunately, the state of Missouri can't really rely on getting as much wind and sun as some states. But what the state does have is plenty of water.

Though landlocked, Missouri has more than 3,000 miles of rivers. And the water in rivers flows predictably in one direction.

"Water that is flowing constantly has much more energy potential than wind because of higher power density," says Mishra, who is now on the faculty of the University of North Texas.

The idea is to put systems resembling wind turbines in running water to produce the energy. This is called hydrokinetic energy, not to be confused with hydro-electric energy produced by dams, which rely on gravity to make electricity via water and generators.

Many big cities in the U.S. are located on major rivers, including Kansas City and St. Louis. Between the two cities, 90,000 cubic feet of water is flowing per second on average. Mishra thinks hydrokinetic energy should be used to help power both metropolitan areas and other towns on the state's rivers.

Incidentally, Mishra says one study shows that 98 percent of fish that come in contact with the turbines would be fine.

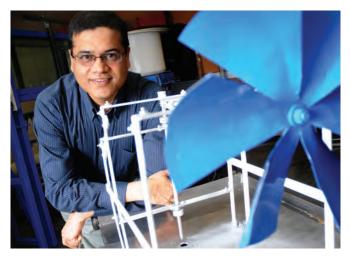
Several different designs for hydrokinetic systems are under development and are being tested on campus. The sizes will eventually depend on the volumes of water in a particular river.

According to **Joshua Rovey**, assistant professor of mechanical and aerospace engineering and an investigator on the project, gauges are being embedded in the turbine blades as part of a monitoring system.

"With this technology, we can actively monitor the blade health as it evolves over time, significantly reducing operation and maintenance costs," Rovey says.

Working with Mishra and Rovey are K. Chandrashekhara, Curators' Professor of

mechanical and aerospace engineering; **Xiaoping Du**, associate professor of mechanical and aerospace engineering; **Arindam Banerjee**, assistant professor of mechanical and aerospace engineering; **Jonathan Kimball**, assistant professor of electrical and computer engineering; a post-doctoral student and 10 other S&T students, including two undergraduates. The research is funded by the Office of Naval Research.



**Rajiv Mishra** 

AND RAJIV MISHRA WANTS TO USE THEM TO HARNESS ENERGY.

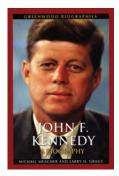
**MILES OF RIVERS** 

MISSOUR

HAS MORE THAN



## Exploring JFK's doubts, legacy



A new biography released by two S&T historians examines the life and political career of President John F. Kennedy. In it, authors **Michael E. Meagher** and **Larry D. Gragg** look at the choices Kennedy made during his brief tenure, including civil rights, the Cuban Missile Crisis and the "space race."

John F. Kennedy, A Biography

"discusses Kennedy's tragic miscalculations in the Bay of Pigs and his doubts about democracy," says Meagher, associate professor of history and political science at S&T. "Kennedy first expressed these doubts when he was a Harvard undergraduate. He continued to question democracy in his later political life, including during his presidency."

Meagher says the book also delves into Kennedy's willingness to use "fear-based tactics" to manipulate the American people during the Berlin Crisis of 1961 and the Cuban Missile Crisis of 1962.

This is Meagher's first book. Gragg, Curators' Teaching Professor and chair of history and political science, has authored books about the Salem Witch Trials, the Quakers and the colonization of the West Indies island of Barbados. He will soon publish a book about the perceptions of Las Vegas in popular culture and a biography of Benjamin "Bugsy" Siegel, who played a role in the development of Las Vegas.

#### Can you read the sign?

If there's one lesson that transportation engineers want drivers to learn, it's to pay attention while driving in construction zones. That's why **Ghulam Bham**, assistant professor of civil, architectural and environmental engineering, and his students are studying the effectiveness of dynamic variable message signs that are often used in highway work zones.

When used effectively, these devices give motorists real-time information about current traffic conditions, like traffic congestion or reduced speeds. The messages displayed are automated and based on data collected by sensors that are placed alongside the road.

The signs are common sights to motorists who travel on Interstate 44 in Missouri. For example, the signs were recently used in construction zones near Lebanon and Richland while the Gasconade River bridge, built in 1955, underwent an overhaul.

"We are evaluating drivers' perceptions of the signs," Bham says. "In addition to collecting video data and sensor information, we conducted a survey of 100 passenger and truck drivers who had stopped at a nearby gas station."

Last year, more than 2,500 vehicles were involved in work zone crashes in the St. Louis area. Eight people died during those crashes and many more were injured. According to the Missouri Department of Transportation, most of the crashes in work zones were rear-end crashes, which usually indicates that one or more vehicles crashed into stopped or slowed traffic ahead.

"Dynamic message signs, when used in construction zones, can reduce delay and rear-end crashes, and improve traffic flow by informing drivers of real-time conditions," Bham adds.

Bham also plans to create a virtual work zone using these signs to further collect driver perceptions using the campus driving simulator.

#### The house of the future, designed at S&T today

In the house of the future, built-in sensors will measure the weather outside and automatically adjust indoor air temperatures. Homeowners will be able to monitor the system with their smartphones.

Using a weather station funded by the Environmental Protection Agency (EPA) and installed at Missouri S&T's Solar Village, researchers began work this fall to make the home of the future the home of today, and save homeowners up to 40 percent in the cost of cooling their homes.

**Joon-Ho Choi**, assistant professor of civil, architectural and environmental engineering, is leading the project with funding from a P3 (people, prosperity, planet) grant from the EPA.

The team will install a small weather station — complete with wind turbine — outside one of the houses at the Solar Village. The weather station will measure the four main factors that impact indoor

climate — solar radiation, air temperature, humidity and wind — and communicate information to a computer inside the solar house. Small sensors will be placed throughout the house to monitor conditions. The data will allow the house to control its own temperatures and conserve significant amounts of energy.

"It takes out the human factor," says Choi, who predicts that houses will one day be equipped with windows that open and close on their own, depending on weather conditions. "It will enhance human comfort while saving energy without additional cooling."

Choi's group will travel to Washington, D.C., next spring to share their results and compete for an additional grant of \$90,000, which would enable them to take the design to real-world applications.

#### "WE DIDN'T HAVE TIME TO THINK ABOUT IT, WE JUST HAD TO DO IT."

- Samantha Welter

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Missouri S&T athletic trainers Samantha Welter (left) and Elizabeth Sisemore (right).

Story by John Kean, jkean@mst.edu Photo by B.A. Rupert

## COURTSIDE Lifesavers

PORTS MEDIE

When athletic trainers go through certification to administer cardiopulmonary resuscitation or use an automated external defibrillator (AED), they rarely think they will actually have to use that training in real life.

But on May 23, Missouri S&T athletic trainers **Samantha Welter** and **Elizabeth Sisemore** had to use that training. And their actions saved the life of a man in the Student Recreation Center.

Tom Brown, a regular participant in lunchtime basketball games in the facility, was preparing for a pick-up game that afternoon when he collapsed. Thanks to the immediate response of assistant basketball coach **Joey Goodson** — the first to check on Brown after he fell — and assistant football coaches **Nate Saum** and **Brett Sykes**, Welter and Sisemore were tracked down to attend to the situation.

"Both of us were in the front office at the time and the coaches told us that someone had passed out," Sisemore recalls. "When I got in there (approximately two minutes after it happened), he was not responsive and was having trouble breathing. Sam went to get the AED device while I started to perform CPR, then when she got back we started a two-person CPR."

The athletic trainers then used the AED device to deliver an electric shock that restored the heartbeat and revived Brown just before medical personnel arrived.

Welter says it was just a matter of reacting instinctively to the situation.

"We didn't have time to think about it; we just had to do it," Welter says. "The whole thing lasted about five minutes, but it felt like it took forever. I will say that everything that happened went the way that it should have. Everyone worked together very well and was very helpful."

A few days later, the local emergency personnel who arrived on the scene cited the two athletic trainers, both in their second year on the Missouri S&T staff, for their quick response and the use of CPR and the AED.

"The AEDs proved to be 100 percent effective," Sisemore says. "The devices are very instructive and tell you everything to do, as well as keep a record for medical personnel of all the information while treating someone. This has helped us as well with EKGs (electrocardiograms) so we know more to prevent this from happening in the future. We've also added more machines in the facility." There are now 12 AED devices in the building.

And thanks to the fast action of Welter and Sisemore, Brown will soon be able to return to the basketball court.

## S&T athletic program fifth in GLVC in final Director's Cup standings

Missouri S&T's athletic program finished fifth among the 15 institutions in the Great Lakes Valley Conference for the 2010-11 season in the final Learfield Sports Director's Cup standings. The standings are designed to recognize campuses for overall excellence in intercollegiate athletics.

S&T finished 92nd overall among the 284 NCAA Division II institutions, putting it in the top one-third of all schools in the division. S&T scored points in five sports in NCAA championship competition during the most recent year, earning points in men's soccer, swimming, women's basketball, men's track and field and baseball, with the ninth-place finishes recorded by the swimming and men's soccer teams being the highest among them. S&T finished with 213 points overall.

#### Miner soccer team in national rankings

On the heels of a season in which it won a share of the GLVC regular-season championship and reached the title game of the NCAA Division II Midwest Regional, Missouri S&T's men's soccer program began the season among the top teams in the pre-season rankings.

The Miners landed a No. 13 national ranking in the pre-season for Division II by the National Soccer Coaches Association of America. S&T also finished 13th in the final national poll a year ago.

The Miners were ranked second among the teams in the Midwest region behind Northern Kentucky University. The only other regional team in the pre-season Top 25 is Ashland, a team the Miners defeated in the opening round of the regional tournament last season.

## Former Miner on gold medal-winning team at World Championships



Former Missouri S&T offensive lineman **Brandon Jordan**, BAdm'09, played this summer on the U.S. national team that won the gold medal at the fourth International Federation of American Football Senior World Championships in Australia.

Jordan was an offensive tackle for the Miners from 2007 to 2009 and was a two-year starter for S&T. He was a starter during the 2008 campaign, when the Miners won the Great Lakes Football Conference championship as part of a record-setting 7-4 season. Missouri S&T posted its highest modern-day total of 408 points during that season.

Team USA won the tournament by defeating Canada 50-7 in the championship game for its third straight title. Prior to that, Team USA defeated Australia 61-0, Germany 48-7 and Mexico 17-7 to reach the championship game.



The Miners took the field for the 1,000th time during Homecoming in October. For a look at 100 highlights from Miner football history, go to **sports.mst.edu**.

#### Sports shorts

Missouri S&T was named the GLVC's recipient of the NCAA Division II Community Engagement Award of Excellence for the 2010-11 season. The Miner athletic program was cited for its Military Appreciation Day activities during an October 2010 football game against Urbana University. One institution from every Division II conference and one conference as a whole were recognized by the NCAA for work to build bridges in their communities. Each institution that won an award received \$500 from the NCAA.

**Brett Vessell**, BSci'11, who earned All-America honors last spring at the NCAA Division II Track & Field Championships as a member of S&T's 4x100-meter relay team, has been named as a recipient of an NCAA post-graduate scholarship for the 2010-11 academic year.

S&T's swimming and volleyball teams were honored by their respective national governing bodies for their work in the classroom. The swimmers were the second-highest ranked team among Division II institutions on the College Swimming Coaches Association of America's team, while the volleyball squad was among 57 schools in Division II to record a team grade point average of 3.30.

## HOMECOMING WÉEKÉND















## ост. об-ор MINERLEGACY



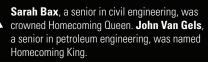














### MINERLEGACY

#### » 2011 AWARDEES SELECTED BY THE MINER ALUMNI ASSOCIATION

At the Miner Legends Banquet during Homecoming, the Miner Alumni Association honored a select group of alumni for their accomplishments and their devotion to the association, the campus and students. Selected from an impressive list of nominees, these awardees represent some of our most talented and dedicated alumni and faculty.



Some of the 2011 awardees, as selected by the Miner Alumni Association, are (from left) **Michael D. Hurst**, CE'74; Jeffrey Volz, assistant professor of civil, architectural and environmental engineering; **Michael Bytnar**, ME'68, MS EMgt'73; James R. Friend, AE'92, MS ME'94, PhD ME'98; **Richard Straeter**, PetE'83; John Gibson, EMgt'74; **Natalie Vanderspiegel**, CerE'02, MS CerE'04, MS EMgt'04; **Kenneth Cage**, ME'63, MS NucE'66; Jane Diecker **Accomando**, NucE'03; **Douglas Ludlow**, professor of chemical and biological engineering; and **Roger Truitt**, ChE'71. The list of awardees appears at right and on page 35.

#### AWARD WINNERS

#### **ALUMNI ACHIEVEMENT**

- Kenneth Cage, ME'63, MS NucE'66
- Roger Truitt, ChE'71
- John Gibson, EMgt'74

#### **ALUMNI MERIT**

- Michael Bytnar, ME'68, MS EMgt'73
- Richard Straeter, PetE'83

#### ROBERT V. WOLF OUTSTANDING ALUMNI SERVICE

• Michael D. Hurst, CE'74

#### FRANK MACKAMAN ALUMNI VOLUNTEER SERVICE

• James L. Foil, CE'74, MS CE'75

#### DISTINGUISHED YOUNG ALUMNI

- Jane Diecker Accomando, NucE'03
- Lister Florence, CE'95, MS IST'06, CSci'07
- James R. Friend, AE'92, MS ME'94, PhD ME'98
- Natalie Vanderspiegel, CerE'02, MS CerE'04, MS EMgt'04

#### CLASS OF 1942

#### **EXCELLENCE IN TEACHING**

• Eric S. Bryan, assistant professor of English and technical communication

#### **OUTSTANDING STUDENT ADVISORS**

- Randall Lewis, instructional lab coordinator, mechanical and aerospace engineering
- Douglas Ludlow, professor of chemical and biological engineering
- Joe Jackson, coordinator of residential life
- Jeffrey Volz, assistant professor of civil, architectural and environmental engineering

## WELCOME HOME



#### « KAPPA DELTA

Kappa Delta has a new \$3.1 million home on the corner of Pine Street and Bishop Avenue. The partially brick building has a high vaulted ceiling over the entry way.

#### KAPPA SIGMA »

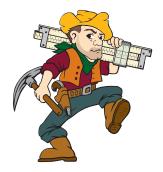
Kappa Sigma recently completed a 9,000-square-foot addition to its house. The \$5 million renovation of the white house includes geothermal heating.





#### « SIGMA PHI EPSILON

Sigma Phi Epsilon recently completed a \$3.3 million renovation of its house, which was originally constructed in 1970. Its facade is constructed with stone pillars, a tan exterior and the traditional red door.



### Miner Alumni Association

The association proactively strives to create an environment embodying communication with and participation by Miner alumni and friends — to foster strong loyalty to the university and growth of the association. The association represents and serves more than 50,000 living graduates and former students.

Today's association carries on the proud tradition of support to Missouri S&T, providing more than \$500,000 in annual aid to campus students, faculty and staff.



# 104th Best Ever St. Pat's Celebration

00 MARCH

their families and guests are invited to attend the St. Pat's pre-parade party from 8:30-11 a.m. on

All alumni,

Saturday, March 17, in the lobby of Leach Theatre in Castleman Hall, 10th and Main streets.

Stop by to visit with your fellow Miners. Complimentary coffee, juice and cinnamon rolls will be served. Beer, Bloody Marys and Mimosas will be available at a cash bar.

Immediately following the St. Pat's parade, all alumni, their families and guests are invited back to Castleman Hall for pizzas and \$1 beer until 2 p.m.

Make plans to travel to Rolla for St. Pat's or attend one of the section events in your area.

Help make the 104th celebration the Best Ever!

# STAT hosts opening week barbecue

Students Today, Alumni Tomorrow (STAT), the alumni student organization, hosted a free barbecue during its first meeting of the year. On Wednesday, Aug. 31, more than 60 students enjoyed grilled hamburgers and hot dogs and received information about STAT.

STAT member Lucas Wessel (left) of O'Fallon, Mo., a senior in nuclear engineering, and vice president Matthew Crinnian of Webb City, Mo., a junior in nuclear engineering and economics, work the grill.

# Nine student groups receive funding

The student organization funding subcommittee of the Miner Alumni Association's Student and Young Alumni Relations Committee awarded \$2,250 to the following student organizations for fall 2011 projects:

- Blue Key Honor Society
- Campus Ministries Association
- Concrete Canoe Student Design Team
- Engineers Without Borders
- Hydrogen Design Solutions
- Newman Center
- Society of Women Engineers
- Solar House Design Team
- Zeta Tau Alpha

#### We want your section news

Submit your section news by Jan. 31, 2012, to alumni@mst.edu for inclusion in the Summer 2012 issue. Looking for a section event? Visit mineralumni.com.

# Alumni take leadership roles in association

During its annual Homecoming meeting on Oct. 8, the Miner Alumni Association approved the following new and returning members:

#### Directors-at-large:

Jon Schneider, AE'87 Michael McEvilly, CE'80, MS EMgt'81 **Area 5:** 

Dawn Stufft, GeoE'99

Area 6:

Art Giesler, ME'77
Area 8:

Tom Feger, CE'69

#### Areas 10-18:

Polly Hendren, EMgt'73 Dan Bailey, GeoE'03, EMgt'05

Thank you to the following members of the Miner Alumni Association board of directors for their dedication and loyalty to the alumni association and Missouri S&T. They have completed serving two consecutive elected terms, per the bylaws:

#### Directors-at-large:

Helene Hardy Pierce, EMgt'83, will continue as chair of Faculty, Staff and Volunteer Relations John Remmers, MetE'84 **Area 5:** 

Henry Brown, CE'68 Areas 10-18:

Mary Lou Legsdin, Engl'90

# Scholarship Golf Tournament - St. Louis

# June 25 — Scholarship Golf Tournament — Wolf Hollow Golf Club — Labadie, Mo.

The tournament raised \$1,200 for the St. Louis Section Endowed Scholarship for S&T students. Thank you.

*First-place Team, A flight:* Bob Buechel '73; Roger Kramer '73, '76; Randy Lang '73; and Rod LeGrand '74

*First-place Team, B flight:* Jim French; Sue Graf '83; Joe Norris '82; and Dave Suiter '74, '99

Second-place Team, A flight: Kent Goddard '81; Tom Moriarty; Steve Figueroa; and Steve Ronekamp

Second-place Team, B flight: Ron Kelley '86; Chuck Hintze; Jack Whitson; and Dave Guyman

*Closest to Pin:* Bryan Bell '88; Matt Bright; Mary Fischer; and Steve Ronekamp

*Longest Drive (men's):* Ron LeGrand '74

*Longest Drive (women's):* Mary Dierker

#### SECTION AWARD RECIPIENTS 2011

Additional awards presented during Homecoming 2011 include:

- Alumni Admissions Ambassador Award, presented by the admissions office: David J. Bufalo, CE'66:
- Outstanding Section Award:
   Kansas City Section (for serving approximately 3,500 alumni in the Kansas City area)
- Phoenix Award: Rocky
   Mountain Section (for increasing young alumni involvement, recruiting efforts and hosting an outstanding St. Pat's event)



*Major Sponsors*: Brinkmann Constructors and Cochran

*Volunteers:* Randy Dreiling '81; and Brenda Liescheidt '78



David J. Bufalo, CE'66, accepts the Alumni Admissions Ambassador Award from John Eash, AE'79, MS EMgt'90 (left), president-elect of the alumni association, and Missouri S&T interim Chancellor

Warren K. Wray (right).



**Bay Area Section** 



**Dallas-Fort Worth Section** 



**Springfield Section** 

# **Student Send-off Parties**

Alumni and friends gather around the country, from Alaska to Florida, to send S&T students off to Rolla in style.

#### Air Capital

#### July 23 — Wichita Wingnuts Baseball Game — Wichita, Kan.

Sean Daly '96; Charles Davis IV '01; John Goethe '92; Craig Goodloe '04; Victoria '99, Anthony '98, Annabelle and Lillian Mattingly; and Tim McLaughlin '98.

#### Alaska

#### Aug. 2 — Home of Von '78 and Jan Cawvey — Anchorage, Alaska

Randolph Alldredge '97; Kayla Billadeau; James '78 and Jan Cawvey; Zachary Cawvey; Dale and Jan Knutson; Harold Schafer '97; and Theresa Williams '98. Missouri S&T representative: Paula McBurnett.

#### **Bay Area**

#### Aug. 6 — Frankie, Johnnie & Luigi Too! — San Jose, Calif.

Thomas Harrison '74; Kyle '04 and Lisa Marie '04 Lampe; Don '72 and Mira Lee; Dennis '76, '77 and Pamela '75 Leitterman; Donald Marsinkavage '62; Donald Packwood '63; and Devin Shannon.

#### Chicago

#### July 17 — Whitlock Park — Downers Grove, Ill.

Daniel '06 and Katherine '06 Aiken; Jan Christian; Ronald Fadler '72; Heather and Joe Ferstl; Cory Gilliam; Phillip Johnson '59; Tyler Losik; Stephan '99 and Laura Magenta; Michael '77 and Laura '77 Marx; Janice '95, Dave, Jessica, and Daniel Mattox; Joe and Beth Munder; Katie, Pete and Sandy Nelson; Elizabeth and Sue Nolte; Cullen and Louise O'Farrell; Sean Padgett; Shannon, Martin and Dena Phalen; Michael Smith; Ben and Brenda Tullis; Chad White '01; Carter Wilson; and Adam Zywicki. Missouri S&T representatives: Katie Layman and Courtney Wallace.

#### **Dallas-Fort Worth**

#### July 24 — Irving Sweet Tomatoes — Irving, Texas

Glenn '83 and Mindy '84 Brand; Chuck Briggs '84; Gregory Copeland '77; Nicholas Eplin; Gary '62 and Judy Havener; Jerry Kettler '65; and Eric '96, Tara and Lucy Link. Missouri S&T representatives: Katie Layman and Laura Hall.

#### **Driftless Section**

#### July 23 — Golf Tournament and Student Send-Off — Decorah, Iowa

Michael Allen; Patrick Alan '87 and Shannon Barrett; Sarah Ann '97 and Grant Johnson; Chris Lehman; Larry Leljefeld; Adam Lewis '04; Kurt '85 and Joan Oakes; Jon Olson; Arthur Reckinger Jr. '62; John Schillie '98; Dan Wenzel; and Linda Wenzel.

#### Houston

#### July 23 — Home of Lori Stapp Crocker '88 — Houston

Andrew Adams '11: Alvcia Ahrens '01: Laurel Black; William '73 and Carolyn Brune; Jeffrey Buck '77; Amanda Cook; Lori Stapp Crocker '88; Michelle and Rhonda Ekholm; Patrick Gaidos '07; Kevin '80 and Dorothy Hagan; Marcus Hayer '10; Alison Ibendahl '05; Ryan, Jeff and Terry Layne; Drew, Sandy and Nadine McNeely; James '67 and Carolyn Medlin; Whittney Metcalf'11; Thomas '91 and Yvonne Miller; Matthew Rankins '10; Jeffery '82 and Mary '82 Simmons; Gregory '85, Della and Austin Skannal; Jonathon Stocker; Julia Valles; Monika Benavides; Spyros '55 and Noula Varsos; Erica, Greg and Pam Wellen; and Carla Yager '79. Missouri S&T representatives: Katie Layman and Laura Hall.

#### **Kansas City**

#### July 23 — Home of Jim '74 and Ann Foil — Lee's Summit, Mo.

Laura '02 and Robert '03 Agee; Don '83, Eva '83, and Ethan Arndt; Kenneth '97, Cindy, Austin, Leanna, Ashlyn and Nichole Brandelier; Lucien Bolon '59; Kimberly Curry '86; Laura Davies '02; Richard DeNise '59; Taylor, Roger and Karen Dieckmann; Thomas Duncan; Kevin Eisenbeis '79; Don Flora; John Frerking '87; Barbara '81, Jeff and Kyle Henson; James '59 and Karen Henson; Laura '85 and Randy '82 House; Michelle '01 and Brad Hunt; Jason '02 and Shannon '02 Jeffries; Paul '94, Jennifer, Kyle and Cameron McCormick; Michael '81 and Cindy McMenus; Mark McNeal Jr. '09; Victor Poland '94; Joseph '59 and Mary Reichert; Richard Riegel '72; Linda Skouby '87; George '74 and Joy Stegner; Dan and Mary Sturdevant; Anan Takroori; Patrick '88, Cheryl and Benjamin Toby; Jim VanAcker '98 and Erin Glossip; and Mike Welsh '67. Missouri S&T representatives: Bob Phelan and Marianne Ward.

#### Lincolnland

#### Aug. 7 — Home of Rich '69 and Carolyn Berning — Springfield, Ill.

Richard '69 and Carolyn Berning; Mark Cooke '08; Lynn '68 and Judy Frasco; Elaina Hodges; Melissa Hodges; Gerald '64 and Marilyn Hoppe; Matthias Hughes; Matt and Brenda Hughes; Keith and Rhonda Laughlin; Edward '69 and Anne Midden III; Jerry '70 and Mary Parsons; Zach Russell; Mike, Deana and Colin Ryan; Benjamin Ryherd; John '81, Rebecca and Jonathan Schmidt; Elizabeth Skeens '08; Willard Sudduth '66; John '69 and Paula Wiesenmeyer; and Amanda '99, Andrew, Logan and Leita Withers. Missouri S&T representative: Katie Layman.

#### Motor City

#### July 30 — Home of Dale '79 and Debora Morse — Milford, Mich.

Taylor Arrington; Ronald '78 and Monica Baker; Andrew Christian '04 and Tessa '04 Baughman; Amanda Beymer; H. Joseph '97 and Will Dickerson; Wendy '89, Anna and Lexi Eckman; John Gannon; Jason Gassel; Jeffrey '95 Hickman; Christine Keener; Joshua Marshall; Dale '79 and Debora Morse; Rebecca Mullen; Clark Potzmann '70; Erika '99 and Lane '99 Rezek; Nancy '83 and Harry Salisbury; Daniel Saylor '99; Rebecca Steinman '96; Chris '85 and Carlita Thomason; Dawn Willis '02; and Zachary Willoughby.

#### **NE-IA**

# July 16 — Home of Mike '99 and Kate Carlson — Omaha, Neb.

Mike '99 and Kate Carlson; Collette Galaske '06; Andrew Lozier '06; Steve '70 and Kathy Masters; Patricia '00 and David Rohan; Daykin and Riney Schnell; Aaron '02 and Jen Smith; Amy '91 and Thomas '90 Tokos; and Matthew Vandergriff '98.

#### Northern Alabama

#### June 9 — Dinner and Baseball Game, Joe W. David Stadium — Huntsville, Ala.

Rob '95 and Rebecca Alferink; James Carter '66; Christian '95 and Christina '95 Cook; Allen Crider '80; Jon '93 and Audrey '93 Fox; Jason '96 and Valerie '98 Holschen; Jim '75 and Dorothy Keebler; Kendra King '06; Tom '66 and Bobbie Meier; Jeff Obermark '91; Alex '98 and Erica Storms; and Richard '73 and Roslyn Taylor.

#### **Rocky Mountain**

# Aug. 6 — Home of Dave Bufalo '66 — Denver

Cynthia '90 and Michael Brunstein '90; David Bufalo '66 and Cynthia Powers; Joshua '04, Rebecca '04 and Tonya Dirksen; Robert Dorroh III '70; Brian '07 and Melanie '07 Ewert; Kurt Haslag '07; Kyle Lampe '04; Robert Martin '49; Ruth Nickoley; Erin '05, Joshua '05, Rhea, Kaelin and Zane Sneller; Michael Steffens '73; and Jeff '79 and Ann Walker.

#### Springfield

# July 30 — Cardinals Baseball game — Springfield, Mo.

Mark Foley '79; Brandon Freeman '08; Michael '83 and Michele Fritz; John '72 and Charlotte George; Jerry Gilmore '60; Keith '93 and Jan Howdeshell; Richard Kellermeyer '59; Charles Klump '86; Dustin Mitchell '07; Roger Phillips '74; Stephen '98 and Amie '98 Squibb; Terence '65 and Janice Towers; Justin '10 and Diane Zipf. Missouri S&T representative: Marianne Ward.

#### St. Louis

#### Aug. 6 — Spanish Village Park — Bridgeton, Mo.

Randall Dreiling '81; Amanda Gilbertson '99; George Holmes; Nicholas LaBarge; Julian LaBarge; Gail Lueck '02; Sarah Moeller; John Moeller; James Nelson '99; Sara Nelson '99; Susan '74 and Sandy Rothschild; Julian Smith; and Jessica Ward. Missouri S&T representative: Marianne Ward.

#### SW Florida

#### Aug. 6 — Columbia Restaurant — Tampa, Fla.

George Buck '50; Brennt Courtney; Steven Jr. '86, Michelle, Grant and Lydia Frey; Bennett '64 and Jewell Muns; Olin Raby '66; David '80, Kathy '83 and Tim Schmitt.



Frank H. Mackaman Outstanding Section Volunteer Awards

Miner Alumni Association sections recognize their own members through the Frank H. Mackaman Outstanding Section Volunteer (Little Mack) award for distinguished service to the section.

Recipients of the Little Mack 2011 are: **— Driftless**: Arthur "Art" Reckinger '62

- Falls of the Ohio: Bob Morfeld '69
- Fails of the Office Bob Monetal 69
   Kansas City: Richard "Dick" Riegel '72
- Lincolnland: Dan Kerns '74
- Motor City: Tracy Cruts '88
- Rocky Mountain: Randy Kerns '74

# prospective student reception

#### Dallas-Fort Worth

Aug. 4 — Richardson, Texas Glen '83 and Mindy '84 Brand; Jim Colliton '78; Rick Erder '75; Jerry Kettler '65; and Ken Link '68. Missouri S&T representative: Laura Hall. Alumni, family and friends gather in 58 sections around the world. Here is a glimpse of their activities.

### falls of the ohio

#### June 17 — Louisville Bats Baseball Game — Louisville, Ky.

Dirk '91 and Nickie Gowin; John '63 and Carola Lina; Ray Maag '50 and daughter Karen; Tom Phillips '62; and John '52 and Scott Robertson.

### flint hills

July 22 — Kansan Grill — Topeka, Kan. Dave Freise '77; Gene Russell Sr. '58; Tom Shepard '67; and Donald Taylor '73. Missouri S&T representative: Marianne Ward.

### motor city



#### June 28 — GM 2011 Interns, Co-ops, New Hires — Home of Dale Morse '79 — Milford, Mich.

Taylor Arrington; Andrew Baughman '04; Tessa Baughman '04; Amanda Foster; Travis Frazier '10; James Holtgreven; Kathleen McKinley; Dale Morse '79; Jason Nolte '05; Emily Otto; Kayla Scharr; Natalie Shanklin '07; Nathaniel Wilke '07; and Zachary Willoughby.

#### rocky mountain



#### July 9 — Sky Sox Baseball Game — Colorado Springs, Colo.

Ed Benn '63; David '63 and Judy Bondurant; Ann '84, Joel '86 and Tabetha Brand; David Bufalo '66 and Cynthia Powers; Derek Dotson; Brian '07 and Melanie '07 Ewert; Daniel Feighery '07; Natalie Foster '04; Sarah Grant '08; Kurt Haslag '07; Bryan Kemper '05; David '07 and Lindsey '07 Longrie; Doug Miller '90; Tom Nicholson '68; Tom Smith '58; Erin Sneller '05; and Zach Troesser.



# July 23 — Dinner and Races — Collinsville, Ill.

Bob '83 and Karen Baumgartner; John '56 and Abida Brawley; Jeremy Buchanan '93; Adam '10, Barb and Eric Doerfler; Randy Dreiling '81; Tom Graves '73; Tim '79 and Julie Guethler; Melvin '78 and Shirley Heisserer; Robert '66 and Cathy Hogue; Mel '61 and Sharon Ingram; Mark '76 and Maureen Liefer; Greg '90, Laura '92, Sydney and Madison Maes; Cheryl Miles; Milt Murray '66 and Sharon Panian; Loy '66 and Sharon Roberts; Robert '93 and Rita Schaffer; Dale '56 and Barbara Schillinger; Tim '90 and Faith Schroeder; Irv '71 and Vivian Siegel; William '58 and Carol Weeke; and Al '57 and Joan Wentz.

### Lang among top executives at Arch Coal

Paul Lang, MinE'83, was recently elected executive vice president of operations for Arch Coal. He was previously the corporation's senior vice president.

Lang is responsible for the safety, environmental and financial performance of the company's mining operations, as well as exploration, geology, operations planning, engineering, mine development, corporate procurement and maintenance.

Lang, who is also a graduate of the advanced management program at Harvard Business School, has been a member of the corporation's senior officer team since 2006. He joined Arch Coal in 1984.

# 1944

William Hubbard, ChE, recently received his 17th patent. U.S. Patent No. 7,735,460 teaches how vegetable oils, with proper blending, can be used as fuel for ordinary autos. He reports that since retirement in 1988, he's been busy working on various patents, including several that "involve a fuel that is safe and legal to store in your car in case you run out of gas. It is called 'Spare Fuel' and is on the market now."

# 1947

William P. McKinnell Jr., MetE, is living comfortably in retirement at Holly Creek, 5500 E. Peak View Ave., Apt. 2226, Centennial, CO 80121.

# 1950

Eugene A. Bartels, CE, and his wife, Marilyn, celebrated their 60th anniversary on Aug. 12 and he turned 86 on Aug. 27. Raymond W. Davis, ME, earned an MBA from Benedictine University in 1980 and has been retired since 1990 from Siemens. "I'm still in good health at 87. Rolla is my hometown. God bless America."

# 1951

Donald J. Dowling Jr., ChE: "Still in Sun City, Ariz. — when not traveling to grandkids' weddings." Elmer D. Packheiser, ME: "My wife and I are enjoying our retirement years on a six-acre place in Cumberland Valley near Greencastle, Pa., with our 31-yearold horse and two cats."

# 1953

William E. "Bill" Patterson, PetE: "I finally got a Ph.D. by marrying a lovely retired college professor in May. June and I plan to visit the Rolla campus in 2012." The couple funded a staff office in the Hasselmann Alumni House.

# 1957

Donald R. Bowers, ME, MS EMgt'71, is enjoying retirement in Washington, Mo.

Edward B. Campen, CE: "We are still moving along. The old oil patch is getting some steam up again. If we could get the feds out of our face, we would not be in the fix we are now in."

Russell E. Wege, PetE: "My wife and I are enjoying good health. We enjoy our grandchildren and doing service projects for others."

# 1959

Robert T. Stelloh, GGph, MS MinE'61, and his wife, Audrey, celebrated their first anniversary.

# 1961

Barbara (Lay) Patterson, Chem, MS Chem'65, PhD Chem'85: "Thank you for the photo CD and for a wonderful Golden Alumni Reunion celebration."

# 1962

Henry Pat Duvall, Math: "I am still tutoring math at South Seattle Community College and volunteering as a judge of student projects at the local Aviation High School."

# 1963

Shafique Naiyer, CE: "We are enjoying retirement by traveling. We spend November to April in our vacation home in Desert Hot Spring, Calif." The couple traveled to Turkey for 17 days and spent three weeks in Arizona visiting the Grand Canyon, Sedona and Scottsdale. They are planning a three-month visit to India.

(continued on page 40)

# Order of the OLDEN SHILLELAGH

ANNUAL WEEKEND

Mark your calendars and plan to join your fellow OGS members April 20-22, 2012, at the Westin St. Louis.

For any questions regarding the OGS Annual Weekend, please contact Tiffany Davis at 573-341-6359.

# Author explores disasters

**Randy Rapp**, CE'83, explores everything from kitchen grease fires to volcanic eruptions in his new book, *Disaster Recovery Project Management: Bringing Order from Chaos*, published by Purdue University Press.

"While each type of event requires a very different scale and type of response, the project management challenges that face restoration and reconstruction professionals after the emergency are remarkably similar," Rapp says.

# 1964

Mark W. Morris, Phys, and his wife, JoAnne, founded and volunteer with the Help One Child ministry. Check out their website at www.helponechild.org.

# 1966

Michael J. Brynac, CE: "Retired and loving it. The sky is blue, the grass is green and I am playing golf. Thank you, God, I'm vertical."

# 1968

Bobby T. Cox, MetE: "Sandy and I still enjoy working at Acorn Stamping, our small manufacturing business that is still growing in spite of the terrible economy. No retirement plans yet. We still race our sailboat and enjoy our grandkids and our cottage on the lake. Life is good."

# 1969

Donald Keith Rice, MS Tch Math: "I tutor mathematics at Florissant Valley Community College and teach mathematics to high school homebound students for the Special School District in St. Louis County."

# 1970

Vicki M. Andreae, Math: "I retired last year after 20 years with CACI Inc. and 17 years with the federal government. Moved from Arlington, Va., to Charlottesville, Va."

# 1971

John Braaf, ME, joined Process Control Corp. as regional sales manager for the western half of the United States.

**Robert Lee Ward**, CE, MS CE'74, was named National Advisor of the Year for Tau Beta Pi, the national engineering honorary. He is a professor at Ohio Northern University.

# 1975

Stephen A. Kambol, CE: "I am a principal program manager for CH2M HILL in Seattle, where, for the past five years, I've managed a 60-firm consulting team in preparing ELS and preliminary engineering documents for the Puget South Regional Transit Authority's 14-mile East Link Light Rail Project."

Steven R. Witthar, MinE, recently joined Skelly and Loy Inc. as assistant vice president and engineering manager in its Wise, Va., office.

# 1977

Larry L. McNary, MinE: "After retiring from the Rock Island Arsenal two years ago, I have moved back to west central Illinois where I have been farming."

### Mueller receives Smithsonian award

**George Mueller**, EE'39, was awarded a 2011 National Air and Space Museum trophy by the Smithsonian Institution in April during a ceremony in Washington, D.C. Mueller, head of the Office of Manned Space Flight for NASA during the Apollo program, was presented with a Lifetime Achievement trophy.

The award recognizes outstanding achievements in the fields of aerospace science and technology. Winners receive a miniature version of the "Web of Space," a sculpture by artist John Safer.

"George Mueller led the program that put humans on the moon," says Gen. J.R. Dailey, director of the museum.



George Mueller (left) accepts the award from Gen. J.R. Dailey, museum director.

Mueller is profiled in the special *Alumni of Influence* publication (pages 6-7) that was included with this magazine.

### A long line of Miners



Pictured, left to right: Kurt Pfitzinger, ME'84; Pat Pfitzinger; Doug, ChE'82, and Nancy Pfitzinger; Sarah Pfitzinger; Lisa (Hall) Pfitzinger, ME'84; Kay (Braun), CE'80, and Mark Pfitzinger, ChE'79; and S&T students Kyle Pfitzinger and Ashley Fisher.

Brad R. Parrish, CE, MS CE'78, received the Private Practice Distinguished Service Award from the Missouri Society of Professional Engineers. Sidney T. Pearson III, Psyc, was appointed prosecuting attorney for Dent County, Mo, by Gov. Jay Nixon. Rick Winkler, EMgt, joined Beckwood Press Co. in St. Louis

as manufacturing manager.

### 1978

Roger Vessell, Psyc, was appointed director of world marketing for Cobb Vantress. Mark R. White, MinE: "I have a lot of gratitude for Missouri S&T and Kappa Sigma — Beta Chi. The opportunity provided to me was incredible."

# 1979

**David Webb**, MinE, joined Cliffs Natural Resources Inc. as senior vice president, global coal.

# 1980

**Michael J. Perry**, CE, was elected chair of the board for the Associated General Contractors of St. Louis.

# 1981

Edward T. Austin, AE, was elected to the board of directors of the Executive Committee of the Missouri Society of Professional Engineers. He is president of Aspen Engineering, Sales and Services in Fenton, Mo.

#### Elizabeth A. (Lenhart) Davidson EF: "Bill (David

Davidson, EE: "Bill (Davidson, EMch'81, Math'82) and I are enjoying our empty nest as both sons moved out recently. Bill works as a mathematics instructor at Saint Mary's University of Minnesota in Winona, where our oldest, Nate, is majoring in computer engineering. I am a software developer for Mayo Clinic in Rochester, Minn. Our youngest, Chris, is a clerk at a local pharmacy, working toward a career as a pharmacy technician." Bonnie Jean (Anderson)

**Mullen**, Engl: "Our first greatgrandchild, Aubrey Taylor, was born in October 2010. I retired in December 2010 from Moberly Area Community College and now spend time volunteering and reading."

# 1983

**Laura Ellen Harrington**, CSci: "I returned to the classroom last fall for one class — the first time since my stroke in 2007."

Tom Stehn, CE, was named assistant district engineer for the Missouri Department of Transportation's southeast district.

# 1985

Randy Jerome Shed, CE: "My son, Randy Jr., a 2004 Rolla High School graduate and 2008 West Point graduate, graduated from Ranger School at Fort Benning, Ga., in April, after serving nine months in Iraq."

Mark Shelton, CE, was named district engineer for the Missouri Department of Transportation's southeast district.

(continued on page 42)

# weddings



Leah Battle, MetE'01, married Russell Hull on April 9, 2011, in Tulum, Mexico.

Jason Bridges, EE'00, MS EE'03, married Timothy Yamnitz, his partner of three years, on Oct. 16, 2010, in a religious ceremony in Kansas City, Mo., and legally in Leon, Iowa.



William E. "Bill" Patterson, PetE'53, married June D. McGee on May 26, 2011. The couple honeymooned on a cruise to Alaska and live in San Antonio, Texas.



Adrien Seguy, EE'07, and **Taylor** Hollenkamp, BAdm'07, were married on July 9, 2011, in Chicago.

**Leonard S. Veden**, CSci'73, recently married Joy Felman.

If you would like a wedding announcement published, please email it to: **alumni@mst.edu** 

# Brady named VP of engineering society

**Neil Brady** was recently named vice president of the Missouri Society of Professional Engineers, a 1,400-member statewide association headquartered in Jefferson City, Mo. Brady, CE'95, is president and engineering manager for Anderson Engineering in Springfield, Mo.

# 1988

Matt Seiler, CE, was named assistant district engineer for the Missouri Department of Transportation's southeast district. Wyndham E. Whynot, Hist, was promoted to associate professor of history at Livingstone College in Salisbury, N.C., in June.

# 1990

**Breck R. Washam**, ME, was named treasurer of the Missouri Society of Professional Engineers. He is an associate vice president at Burns & McDonnell Engineering Co. Inc. and is general manager of the firm's St. Louis office.

# 1991

**Britt E. Smith**, AE, was elected president of the Missouri Society of Professional Engineers. He is director of streets and parking for Jefferson City, Mo.

# 1993

**Matthew J. King**, MetE, coauthored *Extractive Metallurgy of Copper*, 5th edition.



Charles L. Myers, CE, EMgt'94, was named a shareholder of RETTEW. He heads the firm's energy services.

### 1998

Edward P. Chamberlayne, MS EMgt, was selected to lead the Charleston, S.C., district of the U.S. Army Corps of Engineers. He is a lieutenant colonel.

### 1999

John R. Schroeder, ChE, joined Senniger Powers LLP as an associate in the firm's patent and complex litigation practice.

# 2000

Jason Bridges, EE, MS EE'03, and his spouse, Timothy, live in Lenexa, Kan., with their Bichon Frise, Budworth. Bridges is a design engineer with Garmin International and Timothy is a music teacher. They are involved in their church, act and direct in local theater and sing in the Kansas City Symphony Chorus.

# 2002

Aaron T. Hargrave, CE, was named Young Engineer of the Year by the Missouri Society of Professional Engineers. He is an associate engineer at Anderson Engineering Inc.

(continued on page 44)

# Know any students who would be a great addition to the Miner family?

### Encourage them to **visit campus.**

Meet faculty and current students, explore living options, tour campus, and speak with admissions and financial assistance representatives.

**Open Houses:** Monday, Feb. 20 • Friday, April 6

**Miner Days:** Friday, Feb. 10 • Monday, March 19 • Friday, March 23 • Friday, April 20 • Friday, July 6 • Friday, July 20

Individual Visits: Available any day • Monday through Saturday

**RSVP** by contacting the Missouri S&T Visitors' Center 106 Parker Hall • 800-522-0938 • visit.mst.edu

# future miners



Frank Sulze, Psyc'73, and Marie (Willy) Sulze, Psyc'73, are the proud grandparents of Tanner Lewis, born May 9, 2011, to

daughter Sara and Toby Lewis.



#### Jeff Crittenden,

EE'88, and his wife, Jolene, had a girl, Anna Josephine, on April 12, 2011. She joins sister Eva Annelise.



#### Christopher P. Smith, Phys'94, and his wife, Pam, had a girl, Zoey Elizabeth, on June 6, 2011.



#### Eric Burkhalter, GeoE'96. and his wife, Adriana, had a

boy, Byron Grant, on April 4, 2011. He joins brother Jake, 11, and sister Erika Bryton, 2.



#### Steve Owens, EE'96, and his wife, Adriana, had a boy, Miles Parker, on Feb. 23, 2011.



Deborah (Hummel) Newman, GeoE'98, and her husband, Dylan, had a girl, Maliah Irene, on Jan. 3, 2011. She joins brother Magnus, 2.



Jeffrey Paul Krause, MetE'99, and Serena (Jagtiani) Krause, NucE'98, had a boy, William Paul, on May 20, 2011. He joins brothers Nikolaus, 7, and Alexander, 5. Other Miners include grandfather Arjan Jagtiani, CE'66; uncle Randy Krause, MetE'96; and uncle James Stanfield, ME'96.



Christy (Collins) Taylor, Chem'99, and her husband, James, had a girl, Sarah Elizabeth, on Dec. 23, 2010. She joins sister Samantha, 4.

Christopher Paul Kulifay, ME'00, and his wife, Mandy, had a girl, Kelsey Noelle, on June 21, 2011.

If you have a birth announcement, or a photo of your new little Miner, send it to us and we'll publish it in an upcoming issue. Email: alumni@mst.edu



MinE'01, and his wife, Michelle, had a boy, Braden Charles, on April 8, 2011. He joins brother Evan, 2.



Robbie Gordon, EE'02, and Margie (Dickerson) Gordon, ChE'02, had a boy, Lucas Andrew, on May 13, 2011. He joins brother John, 2.



Richard Szevery, MetE'02, and Kearney (O'Connor) Szevery, MetE'02, had a boy, Christopher Andrew, on June 9, 2011. He joins sisters Josephine, 4, and Elizabeth, 2. Family includes Jim Bohn, ME'89, MS ME'96, and Mary (Windish) Bohn, EE'89.



Zach White, CE'02, and Claire (Elsea) White, Math'03, Econ'03, had a girl, Elizabeth Claire, on April 24, 2011.



John Charles Cochran, CerE'03, and his wife, Dana, had a girl, Jolie Claire, on June 2, 2011.



Christopher Claussen, EE'05, and **Rebecca** (Tilman) Claussen, MS Math'05, had a girl, Nicole Elizabeth, on Oct. 6, 2010.

She joins sister Allison, 3. Grandparents are Robin (Bohnenkamp) Tilman, EMgt'78 and Erik Tilman, ME'77. Great-grandfather is Milton Tilman, MetE'60.



Keith Norton, AE'05, MS AE'06, and his wife, Jen, had a boy,



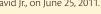


Jeremiah King, CE'06, and Maria (Conte) King, CE'05, MS CE'10, had a boy, Jeremiah

David Jr., on June 25, 2011.



Tiffini (Blair) Wells, GGph'08, and her husband, Wesley, had a girl, Sophia Marie, on Oct. 19. 2010.



# 2004

**Dzenana Mruckovski**, MS EMgt, was named director of facilities in arts and sciences at Washington University in St. Louis.

### 2007

#### Timothy M. Quinn, ME,

was elected young engineer representative to the Executive Committee of the Missouri Society of Professional Engineers. He is a staff mechanical engineer in the energy division at Burns & McDonnell Engineering Co. Inc. in St. Louis. **Travis Stensby**, ME, was named assistant swimming coach at the University of Richmond.

# 2008

**Eleanor A. Gillis**, MS EnvE, finished a tour of duty to Iraq in May 2010. She is now attending medical school in Pennsylvania.

# 2010

**Anna Sell**, ME, joined St. John's Medical Research Institute in Springfield, Mo., as a research scientist I.

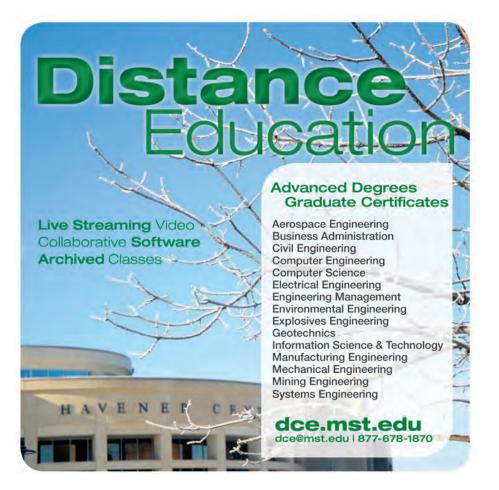
# 2011

Victor Andrew Huber, Hist, received his commission as a second lieutenant in the U.S. Army.

### Uruchima honored by SHPE

**Angel Uruchima**, EE'05, was recently honored by the Society of Hispanic Professional Engineers with an SHPE Star of Tomorrow award. Uruchima works for Chevron Corp. on deepwater exploration projects.

SHPE recognizes outstanding Hispanic professionals in the areas of science, technology, engineering and mathematics.



### Robert "Butch" Laurenson III

Robert "Butch" Laurenson III, former adjunct faculty member at Missouri S&T, died June 9, 2011. Dr. Laurenson, ME'61, held a master's degree from the University of Michigan and a Ph.D. from the Georgia Institute of Technology.

Dr. Laurenson went to work for McDonnell Douglas in 1962. He ultimately retired from what is now The Boeing Co. During his career, Dr. Laurenson was also a contractor to NASA. He worked on the Gemini spacecraft, the space shuttle fuel tanks and the Hubble Telescope. In addition, he taught at various other institutions, including Saint Louis University and Johns Hopkins University.

# 1940



1945

John J. O'Neill Jr., ChF (June 26, 2011)

Joe H. Keller, PetE, was a member of

Sigma Nu fraternity and the university band. He worked

for Shell Oil Co.

Co. in Dallas. He retired to Allyn,

Keith D. Sheppard, PetE, was a

member of Sigma Pi fraternity,

the university band and Tau Beta

Pi honor fraternity. He retired as

president of AMR Energy Corp. in

James R.

Bowman. CE

(Feb. 5, 2011)

Wash. (May 7, 2011)

1990. (July 28, 2011)

1948

1947

and later Bird Oil

Donald G. Schmidt, MetE (April 20, 2011)

William E.

Neustaedter, CE

(April 22, 2011)

1949



Eddie L. Dougherty, CE (Dec. 5, 2010)

James F. Walker, ChE (Jan. 16, 2011)



Vernon L. "Bud" Wells, ME, served in the U.S. Air Force during World War II in Africa and England, flying in more than

50 missions. He worked for U.S. Steel South Works for 34 years, followed by 10 years as a consultant there after his retirement. (June 8, 2011)



James E. Wood Sr., ChE (May 29, 2011)



James P. Youngblood, EE (July 7, 2011)

# 1950



Maurice E. "Ben" Benoit, MinE (April 25, 2011)



James "Ken" Roberson, MinE (July 24, 2011)



Roland W. "Sully" Sullivan, PetE (June 16, 2011)



Ernest N. Uhles, ChE (June 11, 2011)



Harold Krueger, Min'42, passed away Aug. 16, 2011, at the age of 92. Mr. Krueger was a member of the Academy of Mines and Metallurgy and S&T's Athletic Hall of Fame. He was proud of kicking a winning field goal that once gave the Miners a 3-0 victory. In 1985, he endowed the Harold A. Krueger Athletic Scholarship at S&T.

During his career, Mr. Krueger worked at Kennecott, National Lead and Krueger and Associates. Memorial gifts may be made to his scholarship fund through the Miner Alumni Association.



### Victor W. Lomax Jr.



Victor W. Lomax Ir., Hist'73. died on June 30, 2011. A veteran of the U.S. Navy, Dr. Lomax moved to Newburg, Mo., in 1964 and

became owner of a Pecan Joe store until Route 66 became Interstate 44 in 1968. Then he bought Kenmark Sporting Goods in Rolla, which he operated until 1978.

Dr. Lomax, who had an MBA from Drury University and a Ph.D. from the University of Missouri-Columbia, later taught at several institutions. Upon retirement from teaching, he returned to live in Rolla, where his daughter, Lindsay Bagnall, Psych'76, and her family reside.

# 1951



Ralph A. Tuepker, MetE, retired as a blast furnace supervisor from United States Steel South Works and

was an avid carver and gardener. (June 10, 2011)

### 1952



Raymond J. Workman, ME (March 4, 2011)

1953



EE (April 21, 2010)





Reve H. Hammons Jr., GGph (May 8, 2011)



James S. Hendrix,

# (April 30, 2011)

1955



Joseph G. Bushko, CE, was a member of Sigma Pi fraternity and served in the Korean War. He retired as a

transportation engineer from the Missouri Department of Transportation in 1988. (Nov. 2, 2010)



Frank W. Paladin, ME (Feb. 4, 2011)

1959

Charles L. Gambill, MS CE (May 20, 2011)

# 1961



James "Mike" Burns, ME (May 7, 2011)



Salvatore A. Fasone, ME (May 24, 2011)

# 1966



Ralph W. "Bill" Tucker, CerE (June 14, 2011)

1967



Perry R. Ponder, EE (Dec. 29, 2010)



1968

Michael L. Carpenter, NDD (Sept. 5, 2010)

#### W. Howell "Hal" Branum

W. Howell "Hal" Branum, CE'65, MS CE'66, former assistant professor of civil engineering at Missouri S&T, passed away on July 1, 2011. Mr. Branum was president of Professional Service Industries, an engineering and environmental consulting firm based in Oakbrook Terrace, III.

Prior to becoming president in 2000, Mr. Branum was chief operating officer of the company, which has 125 offices and 2,500 employees.

Mr. Branum was also a veteran of the U.S. Army Corps of Engineers, retiring with the rank of captain.



Michael C. Robel,

Barry Z. Krem, MetE, MS MetE'71 (March 3, 2010)

**Stephen W. Woods**, NDD (*April 30, 2011*)



**David L. Huckaba**, ME (May 9, 2011)



Theodore J. "Ted" Spalding, PetE, MS PetE'75 (May 8, 2011)

1971

**David E. Shaw**, MS CE (July 1, 2011)



Frederick W. VonKaenel, CE (June 26, 2011)

# 1975

1976

(March 23, 2011)

Don R. Gelven, MS EMgt

R. Allen

Welshon Jr., CE

(Jan. 31, 2011)

**Mark S. Giulvezan**, CE (*May 25, 2011*)





1983

1979

**David J. Stephens**, EE, MS EE'85 (*May* 16, 2011)

John Crnic Jr., ME

(June 26, 2011)

# 1998

**Crystal S. (Mitchell) Jefferson**, ChE, MS EMgt'03, was vice president of Delta Sigma Theta sorority and participated in Student Council and the Association of Black Students. (*July 10, 2011*)

#### **Richard A. Dumay**

**Richard Dumay** passed away Oct. 29, 2010. Mr. Dumay, CE'71, MS EMgt'72, was a Green Beret during the Vietnam era and received a Purple Heart for his service.

Later, Mr. Dumay worked as an engineer and helped build the city of Dubai. He retired as an engineer for the Department of Navy.

#### X.B. "Rex" Reed Jr.

Dr. **X.B. "Rex" Reed Jr.** passed away Sept. 2, 2011. Dr. Reed was a professor of chemical engineering at Missouri S&T for 34 years.

After earning a bachelor's degree at Texas A&M, Dr. Reed went on to earn a Ph.D. at the University of Minnesota. Memorial contributions are suggested to the Alzheimer's Association.

# friends

Anthony J. Balota (Oct. 14, 2010)

Dwight F. Crosby (March 31, 2010)

Indu Davé, wife of Vibhakar R. Davé, MS Phys'65 (Sept. 28, 2010)

David M. Finch Jr. (April 30, 2011)

Rev. Wilbur Harbaugh (May 6, 2011)

Pat Howe (May 23, 2011)

Floyd Huffman (July 12, 2011)

Alice Ora Light (July 27, 2011)

Wayne Light (June 27, 2011)

#### Herschel McKelvey (May 25, 2011)

Irene O'Neill, wife of the late John L. O'Neill, ChE'40 (*June 1, 2011*)

Julie Rehm, wife of William A. Rehm, GGph'51 (Oct. 9, 2010)

Hugh A. "Spark" Roach (June 10, 2011)

Ralph C. Southard (July 24, 2011)

Lewis Stevenson (May 10, 2011)

**Louise Tankersley**, wife of the late William R. Tankersley, PetE'52 (*May 29, 2011*)

### Correction

The photo that ran with the memorial for **Douglas W**. **Whitman**, GGph'87, was misidentified in the 1987 Rollamo yearbook. That picture was of **Randie Grantham**, GGph'87, who lives in Tulsa, Okla., with his wife, Crystal.

# REGISTRY

#### DONORS AND VOLUNTEERS

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

The Missouri S&T Registry of Donors and Volunteers is more than a list of the university's contributors and volunteers. It represents an honor roll of the university's partners in education — those who believe in the high quality education offered in Rolla, those who endorse the academic tradition of passing down knowledge from faculty to students, and those who assist in preparing tomorrow's leaders for the challenges and opportunities that await. These individuals and organizations are true believers in Missouri S&T's mission and the value of science and engineering education. Through their generous contributions of time and talent, these donors and volunteers have chosen to become an active part of an S&T education and are ensuring that worthy and deserving students continue to be bearers of the Miner tradition.

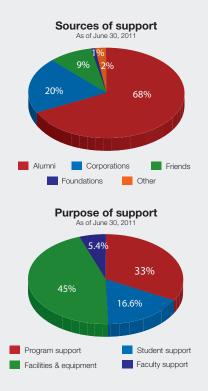
The individuals and organizations included in this registry provided their support during the fiscal year beginning July 1, 2010, and ending June 30, 2011. University staff members have made every effort to provide a complete and accurate listing. Please accept our sincere apology if any mistakes or omissions have been made, and please do us the favor of helping correct our records by notifying the university. You may contact:

#### Melpo Mankin, manager of donor relations

Castleman Hall 400 W. 10th St. Rolla, MO 65409-0940 573-341-6685 mankinm@mst.edu

#### Summary of fundraising

During the 2011 fiscal year, the university received \$16.6 million in gifts and pledges from alumni, friends, organizations, corporations, parents and employees of S&T. The percentage of alumni who made a contribution to the university (called the "alumni participation rate") held steady at 18 percent, a testament to the loyalty of S&T graduates to their alma mater at a time when many other universities are losing support. The following charts illustrate the sources of financial support and their designations. For any questions about giving to Missouri S&T or for more information about making a gift, please contact Joan Nesbitt, vice chancellor for university advancement, at 573-341-7808 or nesbittj@mst.edu.





# ChemE alumni build for the future

Whether he is providing funding for science programs at his grandchildren's elementary school or creating scholarships through Missouri S&T and the National Propane Gas Association, **Jim Bertelsmeyer**, ChE'66, is passionate about supporting science and engineering education. Now, Bertelsmeyer's latest financial contribution to Missouri S&T may have the greatest impact on the future of engineering education.

Bertelsmeyer recently pledged \$5 million to support construction of a new building for his home department. The university plans to name the future chemical and biological engineering building Bertelsmeyer Hall in his honor.

"I look at this as an opportunity to help the chemical and biological engineering department maintain its reputation as one of the premier engineering programs on campus — and in the nation," says Bertelsmeyer, the retired founder, chair and CEO of Heritage Propane Partners in Tulsa.

A longtime supporter of the university, Bertelsmeyer is a past president of the Miner Alumni Association, and a member of the Academy of Chemical Engineers, the Order of the Golden Shillelagh and the Missouri S&T Board of Trustees.

Bertelsmeyer's gift served as a catalyst for a fundraising blitz to raise private funds for the building project. In a matter of weeks, more than 60 alumni contributed \$8 million to the effort.

Joining Bertelsmeyer as a major donor to the effort was **Bipin Doshi**, ChE'62, MS ChE'63. He and his wife, **Linda**, pledged \$1 million toward the building project.

"We absolutely believe in higher education and in the future of Missouri S&T,"



Bertelsmeyer

Doshi

says Doshi, the president and CEO of Schafer Gear Works of South Bend, Ind. "If our gift can help future students to get a great education, then this will be a purpose well-served."

Doshi is also a member of the Academy of Chemical Engineers and the Order of the Golden Shillelagh.

Plans call for the 63,542-square-foot building to be constructed on the northwest corner of State and 11th streets. Construction is to begin in November 2012 with completion scheduled for May 2014.

Even though funding for the building is complete, the department still needs \$2 million for new lab equipment and maintenance. Fundraising efforts will continue to ensure the new building is equipped with state-of-the-art lab and classroom space.

### Donors to the ChemE building

Rich, ChE'61, and Shirley Agricola Alycia Ahrens, ChE'01 Kelley Arrington, ChE'07 Ernest, ChE'81, and Angela, EE'87, Banks Rob Bartel, ChE'96 Katelyn Baygents, ChE'08 James Bertlesmeyer, ChE'66 Dan, ME'87, and Sarah, ChE'87, Bock Jason Brinker, ChE'97 John Brodhacker, ChE'44 Daniel Burtman, ChE'09 John, ChE'74, and Sharon Campbell Howard, ChE'48, and Ila Casselman Mark, ChE'06, and Melissa, BAdm'06, Cox Michael and Kimberly, ChE'82, Denney Justin DePauw, ChE'99 Brian, ChE'87, and Beth Donley Roger, ME'65, and Sandra Dorf Bipin, ChE'62, and Linda Doshi Gary, ChE'73, and Connie Fennewald James, ChE'83, and Peggy, Math'83, Folta Paul, ChE'50, and Betty Haas Donald, ME'72, and Gail, ChE'82, Hahn Allan, ChE'83, and Paula Harvey Gary, Math'62, and Judy Havener Marcus Hayer, ChE'10 Harry Hershey, ChE'60 Daniel Jackson, ChE'90 George, ChE'50, and Barbara Jamieson Fred, ChE'87, and Lynne Kielhorn Dale, ChE'82, and Joan Kyser Jim, ChE'78, and Pat Lattner Guy, ChE'65, and Dorothy Mace Robert, ChE'49, and Virginia Martin Jim, ChE'45, and Judy McKelvey Charles, ChE'82, and Alana Meyer Steve, EMgt'82, and Maureen, ChE'82, Midgley Ron, ChE'64, and Janice Miller Robert, ChE'68, and Ginny Pahl Dennis, ChE'68, and Sue Parker Gary, ChE'60, and Barb, Chem'61, Patterson Kent, ChE'82, and Ellen Peccola Chad, ChE'97, and Elizabeth Reimann Dave, ChE'78, and Karen Scharf Pete and Cornelia, ChE'83, Schirber Jeff, ChE'80, and Pat, ChE'80, Sheets Bob Stevens, ChE'81 Amanda Sutterer, ChE'09 Larry, ChE'77, and Jane Swinney Kent, ChE'63, and Sue Thoeni Roger, ChE'71, and Jean Truitt Kevin and Theresa, ChE'98, Williams Jonathan, ChE'96, and Crystal Winter Ken, ChE'60, and Ramona Wood Dan, ME'89, and Linda, ChE'88, Wright John and Kathy, ChE'86, Zeigler

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Members of the Order of the Golden Shillelagh (OGS) represent the pinnacle of private support, having demonstrated uncommon commitment to the advancement of Missouri S&T. Their support is set apart by boldness of vision depth of generosity, and — in many cases — a remarkable longevity stretching into decades of partnership. OGS members have not simply *given to* S&T, they have *stood with* us in our efforts to realize the promise and potential of this exceptional university.



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The list above recognizes the cumulative lifetime giving and pledges of our OGS members.

F founding member | H honorary member | N new member | S student member | △ advancing member | △) Miner Alumni Association donors KMST Charter Society member | \* deceased

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During opening week, Missouri S&T's 1,120 first-time freshmen get to know each other and get ready to start college. In addition to many social activities, the week's schedule includes completing an academic workshop, learning about campus and college life, and participating in Project X, a team design project.

# **Registry of Members**

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F founding member | H honorary member | N new member | S student member | △ advancing member | △ Miner Alumni Association donors KMST Charter Society member | \* deceased

# Leaving a legacy: The Hasselmann Society (Claghn of the Horizon)

**Karl Hasselmann**, MinE'25, left a legacy of geological exploration for people around the globe and a legacy of philanthropy for S&T alumni.

An internationally known geologist, Hasselmann's system for underwater oil exploration led to the world's first underwater oil field and the first offshore oil wells in the Gulf of Mexico. At Missouri S&T, Hasselmann's contributions total more than \$14.8 million, and continue to grow each year.

The Hasselmann Society recognizes those individuals who have made provisions for Missouri S&T in their will or other estate plans. Through the generosity and forethought of these alumni and friends, programs and facilities are preserved and improved, opportunities are developed for students and faculty, and Missouri S&T's future is secured. Individuals who have made the ultimate gift by remembering Missouri S&T in their estate plans are recognized at the highest claghn level within the Order of the Golden Shillelagh donor society, the Claghn of the Horizon.

Please share with us if you have included Missouri S&T in your plans so we may express our gratitude and welcome you into the Hasselmann Society.



The Karl and Marjory Hasselmann Estate provides funding every year for university support.



#### Claghn of the Shamrock \$25,000 to \$49,999

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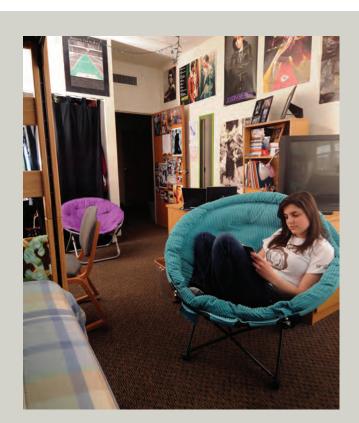
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Beverly (Hartmann) Flori Ralph Flori Jr. Robert Peat (A) Robert Quenon **\*** Joseph Safron

#### \$250 to \$499

Kay (Hardman) Adams (A) **Bradley** Aman Charles Bagnell Jr. David Belden Gregory Bone (A) William Brunkhorst II Barbara (Bening) Busby (A) Joseph Chang Kevin Eisenbeis Francilda Erickson ╇ (A) Donald Harold Lange (A) Richard Lilleston (A) Kathleen (Dill) Shelden Steven Spencer (A) Kevin Todd Jana (Trampe) Zigrye **Stephen Zigrye** 

#### \$100 to \$249

William Bagley Frederick Bauhof **Gregory Beilstein Reginald Benton** Christopher Bettlach (A) Donald Birchler (A) David Bird **Rhonda Boles** Craig Brauks (A) Lawrence Britt Frederick Bueler Jr. Kenneth Burg Salvatore John Calise (A) Robert Crull (A) Kathleen (Miles) Daniel (A) James Fallon (A) Mark Foley Kenneth Foster Ir. Maryann Chambers Fox Jeffrey Freeland Rhonda (Reed) Galaske (A)

Carma (Stone) Gibler **Robert Giovando** Mark Gredell **Stanton Hadley** Thomas Hagale Charles Hall Alfred Harding Jr. (A) **Glennon Hartog** David Heineck Kenneth Heitzman **Timothy Holcomb** Mark Hovis James Humphrey Frank lost Robert Karp Mark Krahenbuhl 🌲 William Lenger Thomas Lyons John McBee Don Meyer Harlan Meyer Dale Morse 养 Lam Nguyen Michael O'Daniell (A) Craig O'Dear (A) Phyllis (Lanza) Panhorst James Paul Harry Posey **Robert Priest** Mark Reichardt Kent Rilev David Sorrell Kevin Stalnaker (A) Kenneth Stratton Steven Sullivan Thomas Sutterfield John Swinson Lawrence Unnerstall Jr. Jeffery Walker Lowell Watson **Gregory Wayne Barry Wealand** John Weaver (A) David Webb lames Wrav Alfred Wai-On Yem

Less than \$100

Bruce Bachman Debra Bene Larry Benz (A) Paul Brake David Braun **Douglas Buehler** Susan (Holm) Bush Ralph Butler Matthew Christian Lee Clauss Jr. Patrick Conrov **Roy Drew Christopher Eales Brian Edwards** William Englehart Ronald Ernst (A) Linn Field Stephen Ford Bahman Gharib Michael Gronek Kirk Hastain **Stanley Heimburger** 

Mark Herr Edward Jantosik Jr. (A) Stephen Johnson Joseph Kelly Kent Koenemann **Ronald Krusie Eugene Louis Kuelker Terrence Lakin** Harold Lasley Jr. (A) James Linsenbardt Patricia Lizotte David Lorge (A) Karen (Avery) Ludwig Glenn Mabie Vincent Mattione (A) **Charles Mattson** George Miller **Montgomery Morse** Diane (Mudge) Mues **George Mues** John Neet lames Neumann Minh (Nguyen) Parrett Thomas Pile Jr. William Rosener **Roger Sanders Barry Sargent Gerhard Schiroky** Randall Schmitt **Thomas Schmitt** Mark Joseph Schurk **Philip Scott** Peggy (Veit) Shaffer **Stanley Sikes Morgan Slusher** Gary Smith **Keith Smith** Kermit Ammon Sparks **Michael Stock** William Talley Jr. Gary Underwood Angela (Baker) Webster Susan (Ray) Whitener (A) Brenda (Talty) Woolsey **Thomas Ziegler** 

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\$5,000 to \$9,999

Rodney Foster 🔶 (A) Thomas O'Keefe IV 🌩 Jeffrey Sheets 🐥 Patricia (Klug) Sheets 🌩

#### \$2,500 to \$4,999

Catherine (Pyron) Fieseler ♣ (A) Michael McCall Benjamin Winter ♣ (A)

#### \$1,000 to \$2,499

William Coppoc Michael McEvilly (A) Gene Ronchetto (A) Cheryl Seeger (A) Kevin Watson (A)

#### \$500 to \$999

Margaret Becher (A) Dwight Fulton Susan (Payne) Fulton Wayne Hamilton Stephan Howard James Lee (A) John Miller (A) Eric Stassevitch (A) Mark Urban (A)

#### \$250 to \$499

Eddie Doss (A) lames Durham **Michael Harbaugh** Janet (Reiter) Loesch (A) Terry Loesch (A) David Lofe (A) Martin Millman Earl Muehlfarth Jr. **Craig Ratkey** Steve Ruether (A) **Mark Schlesinger** David Schmitt 🐥 (A) John Schneider **Mary Ellen Sedrick** Mark Smith (A) **James Volker** 

## \$100 to \$249

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Robert McCarthy II **Dennis Moore Thomas Mueller** William Nix (A) Martin Penning (A) Michael Perry (A) Sherris Ragsdale (Myers) Prall Kevin Rackley Thomas Radcliff Wesley Ranard John Rotramel **Barry Sage** Andrew Schelich Michael Schmidt Robert Schneider (A) Brian Snyder Karen (Miller) Sorrell Michael Stafford (A) Theresa (Talty) Stone Brian Tepper Catherine (Godsy) Tepper Jeffrey Thornton Clyde Trickey Jr.

#### Mark Viox Matthew Vogel Christopher Wilson (A)

#### Less than \$100

Karim Asfour Harlan Ashton Clay Bachman **Ruth Bartlett Robert Been** David Bogart (A) **Bruce Bowermaster** David Bruemmer **Mark Carter** Marilyn Daum David Denison (A) James Doctorman lane Faster Jackie (Pleis) Eiffert Kenton Eiffert Diana (Collins) Engeman Andrea Green **Richard Griner Donald Guenther** 

Kevin Hagan Daniel Heimsoth **Thomas Helfrich** Dean Heneghan Karen (Downer) Herbert Sandra Hoelscher Simmons Steven Hyland Jeffrey Jost Janet Rimmey King Rita June Kompa Susan Leach Charles Linck James Marfice James Massmann Robert McCann Steven McCarter **Stephen Milks** Mesut Muslu David Naeger Steven Null Ruth (Radford) Parker Ravmond Paul Kenneth Peveler (A) **Ted Porter** 



Surveying has been an essential civil engineering course since the university's founding. Students learn how to determine boundaries of land and water using measuring devices and mapping systems to make planning decisions.

Pennie (Nichols) Ranzetta **Thomas Shilling** Russell Shipman Sherry Lea A. (Hagemann) Shipman Mary (Oxford) Siemsglusz David Smith **Ronald Lee Smith** Duane Snyder Dennis Struemph Mark Suellentrop **Michael Suraud** Gerald Tarr Andrew Tayon Jr. Cynthia (Diedrich) Tharpe David Thompson Betty Ellsworth Ungerman Tieu Vinh John Tsang-Chi Wang L. Alan Weakly David Weaver Phillip Webster James Wessel

#### Class of 1981 \$100,000 to

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\$2,500 to \$4,999 Wayne Fieseler (A) S. Dale McHenry (A) Robert Stevens

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#### \$500 to \$999

Paul Baldetti Robert Benson (A) Mark John Dunlay (A) Michelle (Cooper) Fleck Jon Mark Holdman Jon Kos James Gregory Lawrence (A) Barbara (Stoecklein) McPherson Blake Silkwood (A) Brad Snow Matthew Stone Daniel Vaughn (A) Jeruld Weiland Gene Edward Wisner

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Karen (Kohl) Beckmann Randall Dreiling (A)

Billy Euell Jr. (A) Glen Gettemeyer (A) John Hall (A) Janet Hartley **Bonnie Hubert** Donald Hunt Jr. (A) **Michael Johnson Timothy Kaiser** Annette (Le Crone) Kelly Patrick Gerard Kelly Jeffery Kipp **Randall Lewis** G. Glenn Lipscomb II Richard Lux (A) Judith (Parker) Millman Kathy Jo (Bowman) Petering Colleen (Lynch) Petosa Thomas lerome Renick John Renz (A) Yvonne (Turenne) Renz (A) **Michael Roesch** Eric Victor Schelin (A) J. Barry Shelden Jeffrey Sunderland (A)

#### \$100 to \$249

Muhammad Alam (A) Paul Donald Andrew Richard Baltz (A) Patrick John Becker Oscar Berryman Fredric Bruns Michael Calandro (A) Ann Crannell (A) C. Dennis Croessmann James Crume Kathleen (Cooke) Danzo **Margaret Davis Robert Davis** Steven Delaroche Raymond Lloyd Drury III Michael Flannigan **David Fontaine Guy Gilbert Bill Grantham** Vincent Henry Grelle David Griesinger Joseph Ray Grimes Rosalie (Larson) Hadley **Benjamin Lee Hankins** Steven Craig Hanmann (A) **Edward Hart** Thomas Hayes Robert Hoffmann Steven Howard Jeffery Humphreys Paul Janke Dennice (Broadhacker) Kowelman John Lavalette (A) William Lee (A) L. Richard Leipold Frank Mayfield Wade Wesley McLain Michael McMenus Karin Melick-Barthelmess

Kevin Millar David Miller Jr. Ronald Milligan Francis Moser Lisa (Carroll) Mueller Debra Gale (Cooper) Murphy Robert Olson Rhonda Powers (A) Mitchell Putnam (A) Daryl Quinn Edward Robold Gregory Sauceman (A) Wavne Schaeffer David Schlarman **Kenneth Schmidt Houstin Smith Timothy Solomon Randall Kent Stagner Randal Stahlman** David Strubberg Roger Swenson Jr. Eric Treptow (A) Walter James Unverferth Nicholas Valenti Kurt Wilhelm Sara Ellen (Folluo) Wilke (A) Mark Allen Williams Edward Wooldridge John Woracek Pamela (Reed) Wurtzler **Richard Zepka** 

#### Less than \$100

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Diedrick Hausmann Barbara (Sickendick) Henson Richard Herbert Jr. Yoelit Hannah (Shapiro) Hiebert Donald Burton Holley 🐥 Jean Karen (Fischer) Hollev 🐥 Scott Lin Huang **Mark Stephen Huck Bruce Wayne Hulsart** Ann (Painter) Ihms Wesley lenkins **Daniel Ray Jones** Alan Kaelble Kevin Kirkpatrick **Robert Bruce Knowles Jr.** James Krawczyk Gopalan Krishnamurthy (A) Robert Kuhlmann John Laschober Alan Roger Lindsey Michael Marra Marilyn (Kolbet) Mattione (A) Gary Paul McMichael Mark McNally Rozann (McClimens) Mersinger David Louis Mever Allen Minks Kenneth Mizuki (A) William Rogers Morgan Jr. Bonnie Jean (Anderson) Mullen Thomas Muller David Oostendorp **Steven Payne Mark Phillips** Darlene Gail (Barnes) Plag Mark Douglas Plag lack Ratliff Daniel Rembold Shahin Safaei **Charles Sheppard** Dennis Thebeau Leon Thompson Tad Michael Tucker Diane (Dowlen) Underwood James Whetsel Ward Winkelmann Robert Zettwoch (A)

George Harvilla Jr.

#### Class of 1982 \$10,000 to \$24,999

Wayne Huebner 🌲

**\$5,000 to \$9,999** John Robert Miller

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\$1.000 to \$2.499

Brian Keith Bess John Stephen Daniel Kimberly Kay Denney (A) Gail Louise (Dolan) Hahn \* John Greg Kellerman \* Douglas Marquart (A) Russell Edward Myers (A) Kearney Sagehorn (A) Thomas Westerman (A)

#### \$500 to \$999

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#### \$250 to \$499

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#### \$100 to \$249

David Brian Akers Roberta (Scroggins) Allbritton Billy Gregory Aurig

Betty (Weinhold) Baggett Brian Bosecker Danny Lynn Brown Tammie Lynn (Parrish) Buschling Darrell Roy Case (A) Mark Kevin Covey (A) Todd Allen Davis Jeffery Gail Denny Timothy Ray Ervin William Euliss Ir. **Robert Garnett** Terrell Green 🐥 Walter Martin Heyne III I vnne Annette Hoefer Mary Clotilda (Shultz) Hoffmann **James Henry Holm Rong-Fong Huang Craig Scott Johnson** Vicki Sue Johnson Jeffrey Jay Jones **Randy Jordison** Chungsoo Kobawoo (A) **Mary Susan Lampert** Harold Lindley III **Regulah Lindsey** Janet Louise (Meiners) Lynch **Richard Manning Randall March Ricky Lynn Martin** Francis McCormack Robert Metze Jr. Thomas Mooney (A) David Ralph Moore **Christopher Musial** Timothy O'Mara (A) Samuel Donald Otto **Patrick Pautler** Sigrid Anne (Green) Pericich (A) **Donald Brock Pfost** Mai Xuanthi Pham Christopher Rapisardo Nancy Lillian Reiter James Richard Roesch Kenneth Rosemann Glen Arthur Salomon **Dolph Schallenberg Keith Scherer Kenneth Paul Scherer** Susan (McCoy) Schneider Marc Glen Schrank Valoree Sue (Stone) Schrank **Brian Keith Sievers** David Joseph Skuta **Michael Lee Smith** Warren Smith III (A) **Robert Stahlin Guy Steensgard Kevin Sutterer** Daniel Victor John Von Klemen David Alan Voss (A) Lawrence Alan Weiman

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Jeffrey Lynn Smith Leroy Smith Paul Smith **Michael Spengler** Jeanne (Hillestad) Staab David Alan Stockdale Margaret (Herman) Stockdale James Strohmeyer Christopher Thomas **Todd Michael Thomas** John Homer Welch John Scott Wiese David Bruce Wilhide Daniel Zebelean Scott Zimmer

#### Class of 1983

\$10,000 to \$24,999 Helene Hardy Pierce (A) Kevin Mark Ijames (A) Christopher Ramsay (A) Richard Straeter (A)

**\$2,500 to \$4,999** Paul Anthony Lang

#### \$1,000 to \$2,499

Timothy Barefield Mark Alan Harms Scott David Lampert Michael Mohan Susan Elaine Watson-Hajjar (A)

#### \$500 to \$999

Jeannine (Fronckiewicz) Bardsley (A) Kenneth Cochran Tony David Flaim (A) James Allen Folta Peggy Ann (Cypert) Folta **Kevin Scot Griesemer** Lewis Daniel Israel Philip McPherson Kevin Jerome Renner Edith Ann (Foale) Starbuck Michael Starbuck Michael David Stroder **Charles Cecil Weida** Barbara (Yaeger) Weiland Douglas Wheelock (A)

#### \$250 to \$499

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#### \$100 to \$249

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Sherrill Smith (A) Charles Spradlin Jr. Sarah Jane (Hahn) Todd Ramona Lynn Venable Barton David Volpe Carolyn Louise (Muret) Whaley Gregory Alan Wilhelm Bradley Woley Paul Wolfgeher (A) Stephen Paul Yallaly II Desmond Yan Robert Ziervogel

#### Less than \$100 Vicki Lynn Amsinger

Catherine (Lally) Anderson M. Christine (Proudian) Andonian Thomas Atteberry Cathy Jane (Raidt) Baker **Charles Alan Bast** Robert Baumgartner Robert Behnke Jr. William Bohnhoff Mark Brvant **Donald Raymond Burns** Anita Ann (Dixon) Chute **Cheryl Zhalih Clark** Mark Alan Clay Paul Dean Conrad Steven Craig Cornish David Duane Cox George Doria-Medina Edward Henry Easson **Oran Keith Elting Rodney Erickson** Susan (Lakinger) Fahnestock lesse Brown Foreman Anita Jean (Ross) Fournier Scott Roger Goehri Susan Kathleen Graf Mark Lamar Haden (A) Youcef Hammada Carol (Williams) Hanrahan (A) **Daniel Harrington** Laura Ellen Harrington **Kevin Lloyd Harrison** Bruce Jeffrey Hayden **Michael Herries** Jeffery Holland (A) Sallie Joy (Filion) Hose **Mark Hughes** Stephen Jacobi Glen Kaegi Gerald Keeven John David Kottwitz Michael Joseph Lally **Richard Langer Phillip Langhorst** Charles Mausshardt Denise Ann (Rost) Mausshardt Edward Alton May Jr. Jason Charles Maze Susanne McHale **Gregory Meitz** Jeffry Melliere

Scott Aaron Meyer (A) Bradley Raymond Miller Elizabeth (Thuet) Miller (A) Steven Mitchler **Cary Douglas Moore** Leonard Murray **Philip Bruce Musser** Lawrence Newquist Glenn Noe Jr. Florence Ann O'Learv Pedro Julio Ortiz (A) David Leon Oswald (A) Donald Palaski **Christakis Pantelides** Mark Poole William Proulx Peter Puleo Jr. Ramachandran Kevin John Reinhard Brvan Rembold Wayne Rostek Carl Sauer **Thomas Schaefer Kevin Schoolcraft** Mark Edward Silver **Michael Joseph Simms** Cassandra (Crumes) Smith Thomas Lloyd Stehn lames Stelzer Joseph Straeter Michael Ian Tatkow Alan Wikey Tavenner Jack Preston Taylor Mark Tettambel Lynn Dee (Paar) Thomas **Gregory Tolcou** Peter Mark Tutko Wesley Villhard Scott Lee Volner Gregg Alan Walker Doug Wesselschmidt **Curtis Westrich** Lisa Ann (Stevens) Westrich Mark Alan Wickert Paul Wojciechowski David Edward Zink

#### Class of 1984

**\$50,000 to \$99,999** David Wayne Gardner

#### **\$10,000 to \$24,999** Darlene Susan (Meloy)

Ramsay 🌲 (A)

**\$2,500 to \$4,999** Laurie Behm **\*** 

#### \$1,000 to \$2,499

Bentley Cletis Alexander (A) Jennifer (Walker) Alexander (A) Katryn (Davidson) Barefield & Chris McReynolds & Ralph Ross Roesler Angela (Beechner) Rolufs Lisa Jones Sombart &

#### \$500 to \$999

Joan Marie (Maruska) Arthur David Scott Bardsley (A) Daniel Michael Blaes Madison Daily <sup>4</sup>, (A) Charles Derbak Gregory Easson Michael Hoerle Keith William Lueck Jon Paul Mittler John Remmers<sup>4</sup>, (A) Todd Mark Rumans (A) Robert Weir

#### \$250 to \$499

**Terry Adams** Wayne Allan Britson Cindy Jean (Determan) Burton **Clinton Rex Campbell Diane Crouch** Harold James Crouch Jr. **Richard Engelman** Carl Engemann William David Evans (A) Diana Lynn (Markley) Holdinghausen **Clay Eugene Melugin** Edwin O'Neil Gary Penny (A) Mary Ellen (Herre) Plese Michael Lee Powell **Teddy Paul Roberts** Timothy Schoenecker (A) John Schuermeyer James Edward Studer **Christopher Yarnell** Debra (Manley) Yarnell

#### \$100 to \$249

Smaeil Aceil Becky (Messenbrink) Akers **Michael Paul Alwardt Bruce Augustine** Gail Anne (Halsey) Babson **Raymond Bailey** Larry Thomas Birkner Heraleen (Sprenger) Bowers Edward Bradley Jr. (A) Andrew George Cole Matthew Cordner Lynn Anne (Powell) Crane (A) **Robert Wayne Currie** Thomas Joseph Dalton Ronald Wayne Davidson (A) Edwin Diekemper Ramsey El-Fakir Kevin Gerard Fogarty **Keith Freiberger Stephen Gaydos** Jeffery Germer Robert Joseph Goetz David Goldammer (A) Ann Louise (Brandel) Griese **Gregory Wayne Harrison** Mark Gregory Harward (A) Marcia (Robinson) Helveston

Kurt Hildebrandt David Johns David Clair Kerber Kian Hoat Khoe Debra Lynn (Reeves) Kimes **Steven Day Kimes** leffrey Knight Phillip Koehr Larry Gene Kohrmann Banh Van Le Terry Clayton Leeds Suzanna Maupin Long **Dennis Gerard Martin** Anthony Mascalco Ir. Scott Matsunami Jeffrey McKeown Gene Ray Meyer (A) **Ronald Alan Miller Robert Michael Moore** Steven Paul Morlock **Timothy Muehlfarth** Garv Glen Pace Jerre Parker Cynthia Pavelka Joseph Pericich (A) **Ronald Phillips** David Alan Porter **Robert Bruce Pressly** Thomas Pritchett David Merritt Purol (A) Donna (Eberhardt) Rapisardo Frank Earl Relja Philip Peter Reunert Loree (Gahen) Rowe Timothy Wayne Saultz Loretta Ellen Scheibal John Phillip Scheibel lames Lee Schoen Dale Gerard Schwent (A) Brian Paul Sebelski Raiiv Shah (A) **Doron Shapiro** David Clyde Sharp Robin Leah Shepard David Skouby **Paul Thomas Smith** William Smith **Roger Steinbrueck** John David Stocker **James Stratton** Kathleen (Buhr) Strubberg Craig William Thomas Richard Tucker (A) Stephen Mark Uihlein **Richard Kurt Wagner** James Robert Whaley Karen Christine (Penney) White

#### Less than \$100

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William Buscher **Stephen Carroll** Scott Allen Christian John David Colbern **Guv Andrew Cordonier Donald Patrick Crosby** lerry Leon Curless Karl Daubel Jr. Louis Decker Elizabeth Anne Dolan (A) **Kimberly Dowd Dominic** Cathy (Oostendorp) Doria-Medina James Drury **David Albert Ederle** Carol Ellen (Maxeiner) Edwards Daniel George Engler lames Eveker Frank Falleri Jr. (A) Mary Ann (Moses) Farley Cheryl Lynne (Wilson) Gardner Carl Evan Goetz David William Guyan Mary (Shore) Hagerty Benjamin Keith Harrison (A) Gary Alan Hart Paula Elaine (Kovarik) Herries Robert Gerard Heumann Samuel Jerome Huhman **Edward leans Douglas Jackson** Scott Jarus John Louis Kane John Klorer Kenneth Kohl **John Scott Kruse** Douglas Leo Kuchem Paul Langenfeld Paul Douglas Long Luke William Lov Katherine (Von Rump) Lutgen Karla (Goetting) Marburger **Richard Martinez** Andrew Maynard (A) **Timothy McAuliffe** Rhonda Louise McKee Susanne Marie (Voda) Metzler Larry Dewayne Miller (A) Deborah Gay Mitchell **Douglas Dale Moehle** Carleen Lamae (Reece) Monroe John Richard Moser Amy Lynn (Long) Nagawiecki Gregory Edwin Nagawiecki John Nealon Lee Nelson Phung Dac Nguyen James Herbert Ohlms Janet Ann Ondricek

Thomas Ed Orscheln Teri Lvnn Oster Jeffrey Thomas Pachl Alan Parrett **Gregory Alan Phillips** David Brian Popejoy Brvan lerome Ripp **Gary Paul Rogles** Karol (Krumrey) Schrems Gerard Schulte Alireza Shavarebi Mark Alan Shelton **Ronald Lee Simpson** Valerie (Williams) Simpson Lori (King) Smith **Michael Steckel** Susan Owen Tryon Joy Vanhorn (A) Leo Paul Voegtli William Walker III (A) **Steven Duane Watkins** Todd Welz **Charles Woodbury** Randall Aaron Young

#### Class of 1985

\$10,000 to \$24,999 Diane Margaret Butrus \* (A) Kent Lynn \*

**\$5,000 to \$9,999** Sally Prakash **\*** (A) Cynthia Tang **\*** (A)

#### \$2,500 to \$4,999

Matthew Bujewski (A) Anthony Stevens 希 (A) Randall Alan Wood 🌩

#### \$1,000 to \$2,499

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#### \$500 to \$999

John Michael Burgess (A) Jon Timothy Davis (A) Sheila (O'Brien) DeMand (A) Matthew Grieshaber (A) Kevin Robert Hensley (A) Ellen (Westerman) Hoerle Catherine Ann McCain & (A) Jeffrey Murphy (A) George Michael Stock Chris Allen Thomason

#### \$250 to \$499

Kenneth Altnether Judy Kay (Elliott) Bevans **Stanley Wayne Bevans Greg Bolon** Paula Jean (Koenig) Britson John Brown Peter Michael Burton William Carty Christopher Cragg (A) Michael Cunningham Luke Raymond Dohmen Kevin Ray Fritzmeyer Robert Herzog (A) Iohn labusch ╇ (A) Paul Glenden Justis Jr. Thomas Edward Krolak William Lashley (A) Valerie (Butler) Latimer Andrew Maly Nancy Jayne (Elfrank) Nethington Amy Lynn Noelker (A) Matthew O'Keefe Sherry Kay (Allemann) O'Neil **Stephen Alexander Raper** Gregory Skannal 🐥 Tracy Jo Thomas (A) Mark Warner Anne Werner **Douglas Wilkerson** 

#### \$100 to \$249

Hany Abdel-Malek Phillip Anderson Jr. Robert Anderson Christa (DeGonia) Andrew **Bo Henrik Arve** Ancell Mark Atkins Fred Keith Baganoff Mike Bench **Bryan Everett Bowers** Bruce Alan Bovd Christine (Kartman) Brandon Steve Brandon **Randy Lee Buck Donald James Buth** Nathaniel Bryon Canady Wai Yin Chan leff Chou Kuangfu David Chu (A) James Pat Clossick lan Conci Christine (Karl) Corum Michael Dell'Orco Fredrick Brett Denny John Gerard Droste Jeffrey Dubbert Andrew Charles Espenschied Michael Joseph Geringer Diana Goedecke

**Benjamin John Haines** Wayne Hanley **Edward Steven Harris** Barbara Joan (Swanson) Haushalter Donna (Ruether) Hellebusch Martha (Nussbaum) Hildebrandt leffrev Allen Hiller Sharri Lynn (Riggs) Hiller Joyce Susan (Weinhold) Hume **David Loren James** Andrew Jay Jeffers **Matthew Jeffries** Susan (Mathew) John Kenneth Kietzer Stephen Knobbe William Kovacich **Dietrich Kuhlmann Robert Ray Lankston** Kirk William Lawson Mark Alan Layne Brad Alan Lee John Lindsay (A) **Robert Lyness Paul Matthews Craig Maurice** Helen Marie (Heumann) McCormack Steven Kei Mitori John Thomas Modlin Michael Todd Morgan Susan (Oberdick) Myers **Charlie Niet** Kurt Benton Oakes Carol Jean (Davidson) Osborne David Wade Osborne **Gregory Tarr Peacock James Pyatt** Barry Lynn Reed Donald Edward Rickard Jr. Suzanne Marie (Cooper) Riney John Robinson (A) Korene Robinson (A) Heidi Leigh Rutz **Christopher Schaefer** Kenneth Schibler Ir. Daniel Schwartz (A) Allan See Randy Jerome Shed **Kevin Howard Shepard Phillip Harel Shimp Kevin Thomas Slattery** Johanna Marie (Whelan) Smith Todd Walker Smith Anne Marie (Oetting) Spence

**Douglas Kevin Goedecke** 

**David Charles Grewe** 

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Lance Pickler

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### Class of 1986

\$2,500 to \$4,999 Cecilia (Gutierrez) Elmore 🐥 Curt Elmore 养

#### \$1,000 to \$2,499

Mary Besterfield-Sacre John Charles Borthwick 🐥 Steven Frey Jr. 🐥 Joseph Grosko Ronald William Jagels 🐥 (A) Linda Marie (Capone) Komlos 🐥 (A) Kevin Wayne Schneider

#### \$500 to \$999

James Daniel Arthur Frederick Mark Booth Leo George Dehner Jr. Ronald Paul DeMand (A) Kent Richard Erickson Darla Spencer Gavin Timothy Dale Jones (A) Sandra (Hall) Magnus **Bruce Dean Savage** John Francis Szentes Ir. Peggy Wieberg

#### \$250 to \$499

Jane Maria (Bokermann) Aselage David Gerard Barrett Louis Scott Becker Karen Lynn (Koester) Bohaty (A) Henry Bredenkamp Jr. (A) Sylvia Faye Bryant Sara Jane (Matthews) Campbell Suzanne Renee (Black) Cunningham (A) William Dibert Theodore Ficks Curtis David Eshelman

**James Elmer Fiscus** Scott Alan Glaeser (A) Nancy Gertrude (Gott) Kaegi Roger Wayne Owensby (A) **Paul Michael Pericich** Edward Rehak (A) **James Gerard Reinhardt** Mary Jane (Paganini) Reinhardt William Daniel Smith Jonathan Blake Staley (A) Patrick Joseph Wagner **David Matthew Walling** 

#### \$100 to \$249

Donna Sue (Cambre) Arve **Rob Bailey** Jimmie Dwane Bales Jr. (A) Mark Birk Brian Keith Bradley Sharon Chilton Anthony Paul Chiodini Shu-Ti Chou Gary Wayne Copeland Lorne Joseph Covington Kimberly Diane (Sackett) Curry David Robert Erger Douglas Howard Farrar Vicky Leigh (Joslin) Farrar Leonard Frantz Thomas Gerard Grosko Mark Frederick Haushalter Dan Walter Hawley John Hegger Roger Anthony Heppermann **Michael Herleth** Jonna Lou (Cole) Horn John Allen Hume Mary Ann (Aalbers) Jeffers **Brian Jenkins** Christopher Johnson (A) Kevin Carr Kasten Phillip Gene Kaufmann Kelly Ann (Stewart) Kennedy Erika Gabriella Kisvarsanvi Michael Klender (A) **Charles Klump** Liesa (Feldhaus) Klump Kevin Knocke Andrew Knudsen Nand Kishore Kochhar Andrew James Kopff (A) Catherine Linsin Joan Marie Livaudais lames Andrew Lutton **Candice Anne McGhee** Scott Daniel Moffitt **Timothy Gerard Myers** Sandra Lynn (Nugent) Palisch **Terrence Palisch Bruce Pike** Thomas John Placht Stacey Ann (Stover) Polton **Michael Joseph Reiner** Kathleen Rupert-Wayne

Ann Dwyer Sanders **Mitchell Scherzinger** Lisa Kaye Schipper David Schledorn Donald Schnell **Keith David Simon** Andrew Jay Skoog Rowdy Lee Smith Scott Allen Smith David William Snodgrass **Steven Stacy** Steve Svoboda Joseph Raymond Tauser Lisa Kay (Goser) Terry Jerry Truitt Scott Veenstra Douglas Walker (A) Steven Allan Wendland Martin Larry West Suzan (Siy) Wiemers Daniel Matthew Wilbers (A) **Donald Ray Williams** Vincent Paul Zagarri (A) Janice Wilkerson Zang Kathryn Ann (Wittler) Zeigler

#### Less than \$100

James Edward Albers James David Aslakson (A) Christopher Austin (A) Bryan Babcock (A) Jeffrey Alan Baker **David Orlan Barnes Douglas Eugene Barnes** Steven Xaver Bauer Mark Andrew Bergjans (A) **Charles Bernhard Gregory Lane Bier Charles Bowman** J. Christopher Briles **Redus Darryl Burks** Dawn Michelle (Nash)

Burns

**Diane Marie Caldwell** David Capps Scott Dewey Carney **Michael Carson** Thomas Gerald Chapman William Dalton Douglas Dillard Jerry Alan Edwards Herbert Joseph Ehrhard **Douglas Elders Stephen Fiscor** Suzanne Denise (Hale) Gentry Curtis Dale Gibson (A) Eric Douglas Gill Monica Maria (Villavicencio) Goeddel Jan Maureen (Abnet) Green **Michael Green** Patrick Joseph Gripka Nancy (Wussler) Hanks **Charles Hart** Lloyd Heinze Carla Marie (Newhouse) Higgins

**Michael Gerard Hinkamp** 



Every spring, S&T students cut loose and party — block party style.

Larry Allen Hofstetter **Kevin Scott Howe** Yvette Renata Irby Teresa Kay (Dvorsky) Iohnson **Richard Dennis Karner** Kevin Thomas Keenoy William Shawn Kelley **Christopher Keran** Mary Elizabeth (Cuthill) Kicklighter Jay Kurtis Klahs (A) Bruce Alan Knudtson David Edwin Koch (A) **Robert Paul Langan** Timothy Laycock Sr. Alan Lewis **Ronald Scott Marlin Bennie Martin** William Edward Masek Richard Mayer Jr. Deborah Marie (Lauber) Meitz Eric Randal Miller Pamela Ann Miller Susan Emily (Pyron) Miller **Brian Mitchell Stanley Frank Novak** Diane (Botonis) Pickler

lames Pontius Marianne (Moyes) Pontius John Paul Price Jr. William Priesmever **David Leadore Randall** Robert lerome Rauschenbach Terry Gene Read (A) **Thomas Reeves** John Rowe **Richard Brent Rudloff David Salyers Richard Schnoring** George Szatkowski Christina (Vatterott) Tefft Forrest Todd Thomas Marvin Dale Walden (A) **Paul Whiting Wallace Daryl Westermeyer** Joseph Paul Wilson Gillian Mary Worsey David Andrew Wray **Class of 1987** 

\$100,000 to \$249.999 Anthony Thomas Kaczmarek ╇ (A)

#### \$2,500 to \$4,999 **Brian Keith Donley**

#### \$1,000 to \$2,499 Angela Renae (Blake)

Banks ╇ (A) F. Frederick Kielhorn 秦 Jon Carl Schneider 🐥

#### \$500 to \$999

Steven Rush Birdwell Daniel John Bock (A) Sarah Ruth (Reeves) Bock (A) **Janice** Fave (Schaeperkoetter) Fisher John Robert Frerking (A) James Douglas Gavin Zelma Jean (Bennett) Kostyshak Stephen Saliga Adam Rip Stringer (A) Kurt Unnerstall (A) Wendre Vaughan

#### \$250 to \$499

David James Bayless 🐥 Thomas Lynn Beebe

Laura (Oehlert) Clegg (A) Richard Lewis Clegg (A) **Michael Joseph Emanuel** Carolyn (McCowan) Eshelman Arnold Paul Harness Robert Ray Holmes Jr. Ifiok Edet Ituen Steven Todd Kaegi Rhonda Loreen (Yersak) Pautler (A) John Pierre Powell **Steven Robert Sieckhaus Christopher Stirlen Timothy Viox** Thomas Paul Wilshusen

#### \$100 to \$249

**Thomas Joseph Abkemeier** Brian Gerard Andrzejewski Steve Arnold Catherine (Duncan) Backer Denis Andrew Backer Kelly Bailo Steven Miro Bailo Gavle Marie Behr (A) Pat Oscar Bischel **Gregory Robert Bram** John Thomas Bredenkamp Phil Crouse **Bryan Dicus** Jeremiah Golston (A) loev Thomas Gordon Vicki Jo (Ray) Hawkins Joeddy (Witherwax) Hayes James Raymond Hennessey **Richard Horn** James Ronald Hutchcraft (A) **Douglas Scott Imrie** Kevin John Jacobsmever Annette Marie (Schneider) Kiehne **Douglas Arthur Kiehne** Matthew Blane Killebrew (A) Shawn Patrick King Gregory Scott Kinn James Cletus Kreher Frederick Karl Lenhart Deryl Lill (A) David Jack Lown (A) Fric Mast James Edward Melland Marcus Edward Merideth (A) Charles Meyer Roberta Ellen (Brown) Morgan **Timothy Pemberton** Yvonne Suzanne (Paris) Prevallet **Clarence Rasquinha** Daniel Ray Martin Rodseth (A) Angela Jeanne (McEntire) Sabo

Lori Gerhardt Sabo Susan Ann (Cheli) Slattery **Brian Lynn Smith** Andre Trevor Spears **Robert Taylor Timothy Topper Taylor** William Thomas III Kym Indria Thompson **Michael Trimble** Todd Walls Steven Francis Wasleski Cynthia Sue Weber Rachel Lynn (Houser) Wilhelm Kenneth Brian Wilson John Martin Woytus Mark Wuttig

#### Less than \$100

David Alan Ahlemeyer Andrew Gerard Appelbaum (A) John Henry Backs Ann Leslie (Winston) Boes **Gregory John Boes** John Joseph Brands Thomas Harry Briggs **Charles Wayne Bruno Bruce Nelson Cain Christopher Calandro** Cynthia (Koller) Chapman David Michael Chervek (A) John Michael Collins **Cathy Janeen Corley** Steven William Danz Laura Helen (Villavicencio) Denney Jeffrey Eugene Edmison John Joseph Fernandi **Roger Keith Foehrweiser Janet Sue Fraley** Joann (Connors) Galakatos **Rickey Layne Garner Robert Bruce Green** Scott Eric Hancock Jeffrey Lawrence Harpring lames David Hart Carl Hayworth Gordon William Herron Melanie Jane (Major) Karner Charlene Kearnev Paul Kevin Kendzior John Clay Kerley Paul Stephen Korinko John Dell Long (A) **Michael Craig Long** Paul Luik Daniel Maxwell Robert Paul McDaniel (A) Kim Ann (le) Mengel (A) David George Miller **Brian Jaye Mills** Robert Edward Moehlenkamp Mark Allen Monson

**Gregory Earl Morris** Stephen Murphy Michael Dean Napier (A) William O'Connor Jason Ovanic Tina (Wallenburn) Pachl **Gary Partin** James Charles Pisoni Daniel Joseph Plomb lames Scott Rilev **Bruce Peter Sisko Thomas William Smith Brenda Kay Stokes** Michael Duane Stokes John Lester Tappmeyer Michele Renee (Meyer) Tate Mary Ellen (Marshall) Thomas

Joaquin Alindogan Tormo Lester Paul Trelford Thomas Martin Turley Linda Marie (Reed) Tutko David Allen Voeller Richard Joseph Volk Todd Gladden Wagner Joseph Patrick Winkelmann Jr. Michael Woodward

### Class of 1988

**\$10,000 to \$24,999** Steven Cary Dunston **\*** 

**\$5,000 to \$9,999** Jeffrey Ward Douthitt \*

\$2,500 to \$4,999 Leisa (Bowling) Stevens \* (A)

#### \$1,000 to \$2,499

James Patrick McGrath Jerry Tien 希 Linda Kay (Moore) Wright 希

#### \$500 to \$999

Richard Thomas Bradley (A) Julie Lynn (Board) Brunner (A) Gwendolyn Powell James Paul John-Thurman Morris Eric Glen Moss James Pfeiffer Mark Stephen Shlanta Mary Thi Tran (A) William Edward Veerkamp

#### \$250 to \$499

Brenda Sue Brugger (A) Bradford Kline (A) Mark Moellenhoff John Bradsher Pautler (A) Stephen Renald Perillo David Bryan Porter (A) James Dale Steibel Ronald Ray Urton Jr.

#### \$100 to \$249

Jennifer Ann (Lynch) Andrzejewski Joseph Boland Robert Dale Borchelt Virginia (Heikkinen) Callahan Rebecca (Gittemeier) Cato Jack Chen Robert Corum Lori (Stapp) Crocker (A) John Dalton (A) Phillip Dean Ferguson Michael Charles Fisher Ioann Kathleen Girard John Harrison Gordon (A) Michael Joseph Gross (A) Kathleen (Burch) Hagen Deborah Ann (Romberg) Haller Steven Lee Haller **Terrance Rich Harrison** Rebecca Ann (Brinkley) Hegger Timothy Scott Hudwalker Kelly (Barnicle) Hutchcraft (A) Iver Jay Jacobson Julie Louise (Wilcox) Jacobson Gregory Wayne Johnson Christopher Kincaid (A) Kurt Koelling Alexander Kott III Lawrence David Krull Lori Lvn (Mason) Lee Mark Robert Leighton (A) Larry Joseph Linsin **Kevin Wade Low** Thomas Patrick **McClenahan** Kevin Michael Messmer Rainer Peter Mueller **Tod Michael Neidt** Hal Stover Padgett Kerstien Andrea (Prohaska) Padgett Steven Mark Penberthy (A) **Daniel Pickering** Roger David Poythress **Craig Steven Prevallet** Eileen Helen (Krieg) Rackers William Farl Rich Mark Robert Sandfort Eric Randall Schlauch John James Schumacher Edward Anthony Shepard Ir. Linda Louise (Desilet) Smith **David Michael Sowders** Aggie Yee-Chun Sun **Gregory Sutton** 

Robert Vincent Tokar Jr. Randall Lee Vogel Alan Richard Webber

#### Less than \$100

Bradley Thomas Amberger **Kevin Ray Barnes** Kelly Marie (Hennessey) Beckerle Karla Jean (Stiefermann) Bier **Craig William Borgmeyer** Dennis Lee Brinkley (A) Donald Brumm II William Isaac Catron **Tong Chun Choe** Rachelle Dawn (Middleton) Cornelius Matthew Todd Crain **Tracy Lynne Cruts** Robert Dea Dobson (A) **Daniel Michael Doerer** Daniel James Duffey Andrew Shawn Dyer **Steven Edward Ederle** Lyle David Evans Harold Fields Faith Ann (Sagman) Frost (A) Michael Dean Frost (A) **Kevin Fuller Richard Alan Galbraith** Steven leffrev Goodell Jeffrey Grandcolas Samuel Grunbaum (A) Mark Edward Henke Teresa Stover (Stover) Howard Joyce Lee (Oppeau) Kamp Timothy Michael Kamp Lee Ann (Small) Kell Brian Michael Kelly **Timothy Jude Kempf Rickey Joe Kennedy Colby Evan Kinser Robert Leonard Knobbe** Ionathan Lamprecht Deborah (Sauer) Larsen John Joseph LeaRussa Spencer Otto Luke Elizabeth Anne Mack Diane Kay Marchlewski Jack Brian Marchlewski William McCormick III (A) Andrew James McDonell Merwan Burjor Mehta Richard Keith Milner (A) James Edward Mimlitz (A) **George Moellering Rick Milton Murray** Andrew Evan Newell Daniel Carl Nix James Lewis Paunicka **John Clark Perrigue Grant Rorie Phillips Randy Owen Roark** 

Andrew John Rowe Daniel Andrew Schaubroeck Thomas Dreher Sieckhaus Sonuel LaNay (Ivery) Smith Juliet Ann (Minzey) Snook Michael Craig Spencer Brian Douglas Tate Vernon Eugene Vondera Zu-En Wang (A) Christopher Whitlock Michael Wisdom Sherree Lee (Gaskins) Yeoman

#### Class of 1989

\$5,000 to \$9,999 Sharon Gates Douthitt \* Richard Jay Hicks \*

**\$2,500 to \$4,999** Ronald Rosner **\*** (A)

#### \$1,000 to \$2,499

Karen Deborah Squires Foelsch 👶 Daniel Keith Wright 🛸

#### \$500 to \$999

James Randolph Bond Sara Jeanette (Vavra) Bond Jeffrey James Brewer Laura Irene (Spencer) Brewer Wendy Ann (Jutte) Eckman Lisa Renee (Wilcox) Erickson Joseph Baxter Heggie Daniel Heitzman **Charles Vincent Muerhoff** Linda Marie (Fitzgerald) Saliga Ali Ann (Netzer) Simpkins **Philip Jay Simpkins** Karen Sue (Sedlacek) Veerkamp

#### \$250 to \$499

John Micheal Buttenob (A) Paul William Galbraith Jennifer Lynn Hinson (A) Wayne Alan Hopkins Nancy Lynn (Wehmeyer) Parks Mark Privett Dale Emerson Ray (A) John Scott Rose Bret Joseph Voypick Charles Thomas Wolfe

#### \$100 to \$249

Katherine Mary Adrales Luis Rolda Adrales Jr. Jennifer Louise Bayless Edward Gallatin Bryant Mark Joseph Buhr

John Walter Carlson Steven Christopher Chaney Jeffrey Daniel Daily Leonard Joseph Danaher Jr. Kevin Edwards Casimir Eichenseer Brian Est **Robert Gale Ford** Jack Andrew Gray Stephen Dennis Hagen Patricia (Brangenberg) Hatem (A) Carol (Sellars) Iden Andrew Patrick Jones David John Keller George Everett Kouba (A) Jean Marie Leonard Joseph Eric Lundeen (A) Jay William Maudlin Ellen Couvillion McLaughlin John David Meyers Michael Garvin Morey **Deborah Rachel Murphey** John Newcomer **Douglas Reed Niermeyer Keith Gerard Rackers** Vincent Randazzo Brian Dirk Satterthwaite John Francis Scheiding John Evan Stark **Terry Lee Stocking** 

George Tadda (A) Chich-Yao Tang (A) Elizabeth Jane (Huggins) Trimble Carl David Tucker Gregory Jerald Weatherford Michael Robert Wehmeyer

#### Less than \$100

Steven Michael Behrend (A) **Charles Christopher Blume** Linda Boswell Bramel (A) Lynn Boyd Breeding Andrew Dennis Bryan **Bryan David Cork** Carol Yvonne Crooks James Herbert Deines Maureen Mary (Flick) Ederle Deborah Anne (Sinow) Engelmeyer Christine Dione (Stoverink) Grunbaum (A) **Gregory Bryan Hanlin** James Donald Haring **Richard Aaron Houtz** Jeffrey Kent Hoyt

Sheri Dawn (Wayman) Kerley Barbara Ann (Reilly) Langan

Timothy John Mauntel

Todd Mills William Elliott Moser Terry Ann (Tillison) Newquist Dan Nobbe (A) **Michael Pappas** Elisabeth (Larson) Phillips Tracey Anne (Clavenna) Puthoff Scott Allan Rakers Kristin Renee (Snyder) Ridenour (A) Laura Ann (Neels) Sakach **Christopher Scholten** Rhonda (Dalske) Spencer (A) **Steven Andrew Stiles** Amy Dawn (Volmert) Sullivan **Bruce Carlton Townes** Raymond Matthew Webb John William Zimmermann

**Gregory Allen Mettlach** 

#### Class of 1990 \$2,500 to \$4,999

David Tepen (A) Breck Ray Washam 养 **\$1,000 to \$2,499** Gerald Mason

Elphingstone Jr. (A) Claudia Christa Hoeft

#### \$500 to \$999

Dennis Lee Bell Susan Marie Lowe-Libiez Katherine Ann (Stone) Phillips Robert Leroy Phillips Bret Allen Riegel (A)

#### \$250 to \$499

Russell Henry Henke Matthew John Hunn Brian Osborne Danton Paulson & (A) Stanley Schultz Jennifer Shylanski Kimberly Anne (Sweeney) Voypick Charles Michael Witherspoon

#### \$100 to \$249

Catherine Ann Alofs Craig Alan Bailey Cynthia (Gereau) Bailey Michael Robert Becher

Brent John Bjerken Jeffery Howard Bowman Denise Carol Brandt (A) **Benjamin Page Bridges Michael Timothy Buechter Raymond Joseph Cologna** David Lee Cowell Nancy Elizabeth (Gamel) Daily **Timothy James** Dickinson (A) Angelia Suzanne (Honse) Dunlap Dewayne Eagleburger Suzanna Jo Edwards David Lee Enke lames Donald Feher Sandra Feher Michael Christopher Fox 🐥 Stuart Gardner Susan Lynn (Evanson) Gardner Diana Lee (Kolbet) Gray Gary Joseph Hatfield (A) Violet Jean Hofer (A) Daniel Edmond Jackson (A)

Violet Jean Hofer (A) Daniel Edmond Jackson (A) John Joseph Janchar (A) Travis Johnson Matthew David Johnston Donald Kerns Steven William Koop **Gregory Charles** Lechtenberg Lisa Chon (Golden) Lindesmith (A) Stanley Benson Lindesmith (A) Gregory Richard Maes (A) Evelyn Elizabeth (Sweet) Martin Lisa Kaye (Shoemate) McCarthy Cynthia June (Black) Moses Rajiva Prakash (A) Jeffrey Joseph Reinkemeyer Amy Diane (Horst) Strauss (A) Steven Patrick Terneus Thomas Louis Tokos Jr. Troy Alan Tschirhart (A) Robin Danielle (Meyer) Wankum John Andrew Wegener

#### Less than \$100

Charles Franklin Agers Timothy Gerard Beckerle David Anthony Boedeker Christopher Noel Boone (A) Bruce Borcherding Steven Lyman Cook

## **Design your gift: Invest in Missouri S&T**

**Cash** (including checks, credit cards or five-year pledges) is the most popular and flexible type of charitable gift. Cash gifts are deductible to 50 percent of adjusted gross income (AGI), with a five-year carry-forward.

A gift of **securities** is deductible at full market value to 30 percent AGI, with a fiveyear carry-forward. By giving the securities directly, donors may avoid capital gains taxes that would have been payable if they sold the stock and gave cash. Closely held stock may sometimes be accepted.

Matching corporate gifts enable donors to double, triple or even quadruple their gift, depending on the matching gift policy. Matching gifts from corporations are "soft-credited" to the individual donors for gift club recognition.

#### Charitable gift annuities (\$10,000

minimum) pay a guaranteed fixed income to a donor and/or a beneficiary for life with the residual value of the annuity given to Missouri S&T or the Miner Alumni Association upon the death of the annuitant. (Income tax deduction, estate tax savings and capital gains tax savings.)

**Charitable remainder trusts** (\$20,000 minimum) pay an income to the donor or beneficiary for a term of years or for life with the remaining principal given to Missouri S&T upon the death of the donor or beneficiary. (Charitable remainder trusts may include income tax deduction, estate tax savings and capital gains tax savings.)

**Testamentary gifts** (bequests through wills) give many donors the greatest opportunity to make a substantial gift to Missouri S&T or the Miner Alumni Association.

**Charitable lead trusts** pay an income to Missouri S&T for a term of years; at term's end, the remaining principal or asset is returned to the donor or designated beneficiary. (These gifts may include income tax deduction, estate tax savings and capital gains tax savings.)

This information is not intended as tax and legal advice. For legal and tax advice, please consult an attorney and tax professional. For more information about giving, please contact Greg Harris at 573-341-6533 or email gfharris@mst.edu.

Christine Marie (Schilt) Deines Lisa Ann (Danaher) Doyle Thomas Shearer Duncan III Mary Elizabeth Edwards Michael Francis Ellis Jr. Kenneth Paul Engelmever **Michael Evans** Carmen Denise (Mann) Fabella Virgilio Carrillo Fabella Jr. Cynthia Lee (Stover) Fischer **Robert John Fischer Stanley Frisbee** Ann Louise (Yocum) Galbraith Christopher Alan Grose **Danial Gualtieri** Nancy Kay (Meyer) Harster Lynne Patricia (Hackman) Havnes Robert Thomas Hickman William Brittain Kennedy **Barry Dwane Kindsfather** Kevin Shawn Kohm John Patrick Lammers **Paul Frederick Lampe** Christopher Allen Layton David Wayne Loida (A) Mark Lynn Louder (A) Kristofer Ion Maschler Scott Raymond Miller **Edward Anthony** Montgomerv Brian Joseph Nenninger Barbara Ann (Clark) Pappas Lisa Ann Riley

Lisa Ann Riley Schonda (Briggs) Rodriguez James Curtis Rutherford Richard Alan Schmidt Joseph Bradley Steinkamp Timothy Alan Stelljes (A) Randy Michael Tucker Jeri (Marrs) Vondera Tracy Lynn (Akiyama) Walsh (A) Michael Lee Wilkening John Patrick Witham Robert Stephen Woodley Roger Allen Younger Susan Lynn (Eischen) Zimmermann

#### Class of 1991

\$1,000 to \$2,499
Amy Ann Beechner-McCarthy ◀
Kyle Eugene Graves
Walter Stephens

#### \$500 to \$999

Callie Jo (Harmon) Daniels Thomas Francis Hughes John Kuehn (A) David Michael Libiez Mary Ellen Muldoon (A) Lara Christine (Phillips) Waters (A)

### \$250 to \$499

Garv Wavne Elbert Jane Dorothy (Dey) Elbert Dirk Lynn Gowin Jeffrey Allen Harris Martin Charles Hesterberg Joanne Marie (Kausch) Holmes Darren Kammer Sally (Collins) Kammer Timothy Francis Kram Mark Steven McColloch **Thomas Michael Miller** William Parks Joshua Howland Robinson Cynthia Elaine (Farrington) Steibel Leslie Helayne (Vigna) Witherspoon Sunila (Lahiri) Young

#### \$100 to \$249

Mary (Eise) Becher Brian James Berkstresser Glenn Steven Brenneke (A) **David Eric Britton** Karla Marie Casper (A) **Douglas Todd Cordier** Melissa Rose (Benedick) Corkill James Deschenes James Edward DeVaney Jr. (A) Terry Joseph Dunlap Steven Lawrence Fulkerson (A) Ross Haselhorst Timothy Edward Holland Debra Michelle (Faust) Humphrey (A) Ronald Allan Humphrey (A) Derek Dwight Ingram Jennifer Cordes Jansen Suzanne Grace (Metzner) lohnston **Christopher Neil Kennedy** John Scott Kozlowski Kelly Brian Leseman Paul Han Keong Lim John Wallace MacDonald David Lewis Manka John McClenning Kristy Lynn (Weber) Meyers Joseph Marion Moses **Christopher Scott** Newcombe (A) Thomas John Oberle Robert Lee Parsons Joel Alan Philliber Wayne Kevin Portwine (A) Victor Rackers Mark Thomas Sautman

Donna Karen (Kraus) Smith Keith St. Gemme **Richard Edward Stehlin Christopher Robert** Steineman Deborah Anne (Walton) Stewart William Thomas Stoltz Dana Lynn (Salzman) Stroup Brian Keith Taber Bradley Len Tate Patrick Tepesch Paul Gerard Thessen Kelley Ann (Jozwiak) Thomas (A) Lori Kay (Ehlmann) Tokar Amy (Pharr) Tokos Marie leannette Vanderpool Victoria Jane (Scammacca) Verdoni (A) Jay Andrew Wallmark Thomas Joseph Wankum

#### Less than \$100

Holly Ann Atkinson John Robert Beatty **Michael Christopher Brandt** Susan (Bruns) Casleton Dana Marie (Brewer) Clark Peter Feuerstein Mohamed Tarek Gaber **Carey Lamar Gatlin** lennifer Lynn Graham-Rateliff Glen Kenneth Halley Karri Lyn (Hall) Halley Keith Allen Hansen **Eric August Haynes** Susan Lynn Kellems Garv Dale Kercher **Bonnie Mathis** William Vernon Mever Robert Niedergerke (A) Christine Elizabeth (Bough) Ovanic Paul David Petry Mark Allan Phillips **Michael Paul Rollet** Marilyn (Peebles) Ruffin **Dale Robert Rundlett** Christina Marie (Hayes) Schmidt Kathryn Sidener Steven Sievert **Britt Elliott Smith** David Gerard Tajkowski Frederick Lee Thomas (A) **Brad Michael Wadle** Lucinda Lee (Young) Wadle

#### Class of 1992 \$1,000 to \$2,499

Anna Ruth (Light) Coats

#### \$500 to \$999

Kurtis James Daniels David Paul Fannin Paul Joseph Kusterer Philip Woon Yau Ling Kay Frances (Schilli) Schmid Sufei Wei

#### \$250 to \$499

Curtis Allen Brown Lynne White Fielding Pamela Ann (Luchun) Hesterberg Brian Kuchinski Stephanie Anne (Stroker) Puljak (A) Stephen Rudy Puljak (A) Mark Stanley Shylanski Lenard Alan Smith Michael Dwaine Smith (A) Mark Aaron Stranczek David Scott Vollenweider

#### \$100 to \$249

Vick Agarwal Devon Lee (Sample) Christensen Grant Allen Christensen Leigh Anne (Clark) Cordier J. Matthew Dunehew Rebecca On-Uma (Workman) Dunehew Linda Lee Falkenhain Chad Dale Gerard **Scott James Harris** John Wavne Harty Ir. Danny Lynn Jackson Kara Rose Kimmel Peter Robert Laudon Vernon Scott May Karissa McCarter Gerald Ray McCray Matthew Kevin McLaughlin **Charles Allen Misner** Michael Scott Moats **Richard Lee Morris Timothy Edward Newton** Erik Shane Ohare William Joseph Rowell **Keith Eugene Schoby Travis Brooks Scott** Allen Sehrt (A) Mandeep Singh **Milton Sorensen Timothy Mitchell Spyers** Joanne Christine (Stratman) Steineman David Philip Theisen Marc Galen Thomas (A) Alva Lester Veach II John Charles Wagner Randall Scott Wakeland **Derek Lee Watkins Brian Paul Winschel** 

#### Less than \$100

Damon Lee Allen Jeanne Kay (Jackson) Allen **Robert Allton Bartelsmeyer Robert George Becker Carol Ann Bennett** Lesley Gail (Osick) Bennish Stacy Loren Bergmann William Edwin Booth David Cary Edward Allen Casleton lean Stewart Craft Mark Matthew Cyr John Franklin Davis Scott Randall Dixon **Russell Wayne Doss** Cassandra Lee Engstrom **David Patrick Fitzgibbons** Lawrence Gant Ir. Vicky Lynn (Horstmann) Gerber Eric James Gilstrap Sean Michael Griffin **Raymond Charles Haddad Michael Raymond Halbach** Robert Lee Hoog Amy Lorraine (Mason) Hunter Thomas Francis Kappel George Winsler Karr (A) Andrew Scott Keener Lynne (Denney) Kinser Jeffery Alan Knight **Timothy Stanley Koscielski** Jacob Paul Kovel Christopher Travis Leach Donald LeGrand David Ion Lowry John Ludwig **Kyle Eric Metzloff** Ivothi Nagarai Donna Nestle Andrew Day Nordeen **Brian Matthew Pence** Regina Anissa (Jacobs) Pratt Jeffrey Olen Rainwater lack Harold Schaller Ronald Bruce Shankland Boyd Duane Sievers (A) **Joseph Nicholas Stemler** Theresa Mae Swift Matthew Thompson leffrev Paul Waller Keith Robert Weyenberg (A) Jeffrey Stephen Zawila

### Class of 1993

\$1,000 to \$2,499 Bret Baldwin (A) Regina (Turner) Baldwin (A) Richard Brett Frankenberger \* Jon Michael Gibbs \* (A) Scott Palmtag \* (A) Karunakar Sreerama (A)

#### \$500 to \$999

Gregory Lynn Hempen Steven Bernard Howard ♣ Suzanne Marie (Burrow) Hughes Charles Lloyd Myers (A)

#### \$250 to \$499

Tim Joseph Baer Sandra Jo (Berendzen) Drake Donald Leroy Huff (A) Daron Mitchell Hunt (A) Stanley Hugh Hunt Kelly Lynn Kalmer Mary Ellen Kirgan Thomas Rogge Clint Allen Scott (A) Scott William Shylanski Philip Joseph Wentz (A)

#### \$100 to \$249

**Dennis Christopher Amend** Lisa Marie (Molner) Anielak Carol Bain Suzanne Margaret (Reeves) Brooks (A) **Bryan Christopher Bross** Fred Tze-Yu Chu (A) Teresa Marie Dickenson Melissa Ann (Moore) Felton LeAnne (Kilby) Garner **Stephen Michael Gibbs** Melanie (Robertson) Gonia Scott Arthur Haling **Craig Alan Hindle** Melissa Ann (Chittenden) Hindle Jonathan Huecker Heather Marie (Shearer) Ingracia Stephen Allen Ingracia Gary Alan Jacquin Susan Elizabeth (Shaw) Kennedv James Edward Koch Mark Allen Lanigan Laura Jane (Hubert) Maes (A) Benjamin Arthur Marlin Nicole Renee Mason Susan (Race) McCart Amy Michele (Keith) Moats Shawn Michael O'Donnell Dhiren Kumar Panda William Anthony Phillips II Scott Plocher **Roger Stewart Protzman** Hai Qiu **Kevin James Reilly** Adam Clinton Rider Paul Michael Sakowicz Velleta Marie (Grote) Scott

Thomas Richard Sellers Jr.

Cristina Serban



#### Less than \$100

Anthony Cruz Aguilera Hugh David Bono **Matthew Curtis Buenemann Tony Lee Cable Brandon Lee Cordts** Gregory Allan Davis Carl William Debrock **Richard John Falkenrath** Diane Kay (Schwalje) Faulkner (A) Randy John Goltz **Chad Matthew Hamilton Timothy Emil Harster Steven Douglas Hoernig** Daniel Allan Jones Milind Madhav Khandekar (A) Brian Lee Kincaid John Blayne Kirsch Allison Christine Leonard (A) John Robert Lotz George Andrew McCandliss Mark McCormick Albert Michael Mevers Jennifer Kathleen (Wray) Mevers Kurt Paul Muehlher Jay Roger Paige Sumita (Majumdar) Pal Deborah Lynn (Archibald) Rackers **Mitchell Lee Rackers** Linda Sands Leslie Ann Sawver **Robert James Schaffer** Gary Schaper **David Vincent Schuehler** Kerry Gail Scott Raymond Michael Seggelke Jr. **Kimberly Ann Sellards** Wu-Sheng Shih Brian Shannon Swift Sarah Beth (Conyers) Thompson Kenneth Wayne Trantham

### Class of 1994

\$1,000 to \$2,499 Donna Kae Cogell • Patricia Ruma Spence • (A)

#### \$500 to \$999

Brett Patrick Goodman (A) Shannon Dale Johnson (A) Sandra Beth (Todd) Kusterer Kent Dean Peaslee

#### \$250 to \$499

Mark Jeffery Barnhart Christel Bemelmans John William Cash Jeffrey Cook Michael Edward Drake Tara June Muehe Lisa Michelle Reeves Laura Louise (Riegel) Rickman (A) Karen Elizabeth (Schoor) Rogge Gregory James Teets Tammy Marie (Jersa) Vollenweider Steven Edward Weible

#### \$100 to \$249

Karla Noel Chaney (A) **Kuo-Ting Chao** Jau-An (Pan) Chu (A) Terry Croxford (A) Thomas Michael Evers James Brett Felton **Brent Allen Fullerton** John Austin Glaubius Douglas James Haas **Pleamon Frank Hamlin** Thomas Joseph Hasenstab Semone Dong Huang Daniel Scott Krueger Nicole (Ritter) Krueger Peter Gyula Laky Stephen Michael Lane Robert John Long III **Duane Edward Lowe** Chad Joseph Means (A) Darren Dean Peeler Victor Michael Poland (A) Aswath Rao Kanchitpol Ratanapan Patricia Leigh (Hudson) Schneller **Christina Louise Sfreddo** Shobha Shashikumar Venkatakrishnaiah Shashikumar **Christopher Payton Smyser** Amy Louise (Gefferth) Stehlin **Edward Franklin** Stephens IV **John Edward Stone Robert Alan Turner** Brian Keith Verman (A) Sean Walker (A)

#### Less than \$100

Thaddeus Stanislaus Baranowski Susan Elizabeth (Jamboretz) Barry

**Courtney Caroline** (Sandford) Birkel Joseph Robert Boley Julie Lynn (Montefusco) Bolev Krista Lynette Burnett Kirk Allen Carson Robert Dean Clark Dawn Alaine Clayton Lawrence Edmund Cook James Nathan Daniels Farida (Mehta) Deeds **Stephen Kent Denney** Khang Van-Si Duong **Michael Evans** Melissa Ann (Kuenzel) Graham Christine Marie (Peterson) Griffin John Raymond Guenther Gary Hazen Kurt Edward Higgins Justin William Hiller David Paul Johnson Catherine (Carlisle) Kammerer **Glenn Reinold Kammerer** William Kipp lau-Yeu Lai **Ross Allen Laurent** Christopher Lee Lewis **Eivind Listerud** Rebecca Lynn (Wilson) Lorev Sharon Lee Mayo Erin McLaud **Christopher Anthony** Mueller Anitha Panapakkam Michael Scott Rakonick William Lynn Redman Jason Neil Richards Jennifer Jo (Bischel) Richesson Donna Riggs (A) Denise Carol (Ratcliff) Schieszer **Douglas Fredrick Schieszer** Jesse Paul Schmeller Scott Michael Schneider Kenneth Robert Senechal Jason Andrew Stratman

Kenneth Robert Senecha Jason Andrew Stratman Scott Alan Swoboda (A) Clifton Joe Toombs Anthony Tho Tran James Richard Uehling Brent Allen Ward Jeffrey James Watrous Andrew William Zimsen

#### Class of 1995

\$1,000 to \$2,499 Jason Ramsey Greenwald Maureen Anne Hall Michael Holm (A)

\$500 to \$999 Steven Lee Booton Winchester Richard Falbe Rebecca May (Light) Fiechtl (A) Alan Eugene Flagg David Wayne Herberger (A) Paul David Hirtz (A) Susan Mills

#### \$250 to \$499

Robin Lynne Collier Yong Fang Amy Jo (Sauer) Haddock Mark Neil Haddock Carlos Alberto Jaramillo Jennifer (Mueller) Kuchinski Michael Stephen Miller Fred William Niemeier Joel Todd Rickman (A) David Allen Ryckman Benjamin Edmund Steltenpohl Phillip John Weber Jr.

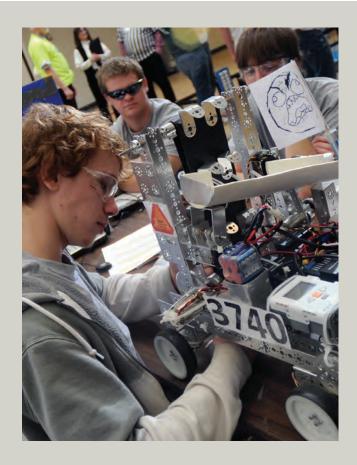
#### \$100 to \$249

William John Anast Scott Wayne Ashwell Tracey Dawn (Davis) Ashwell David Michael Borrok Mindy Monique (Gardner) Carreras **Richard Lee Davis Blu Eric Englehorn** Gary Hines (A) Robert Lewis Hormell III Phillip Howard Shannon James Howe **Ioshua Bruce Iarvis** Shelly Ann (Backues) Lane leffry Donald Lueddecke Andrew Ryan Martine Kenneth Michael Martinez (A) Brent Lewis Massey **Travis Steven McGee** Thomas Patrick McMahon

Christine Marie (Kump) Mitchell Kirk Andrew Peterson (A) Tony Rohs Amelia (Crenshaw) Sanders Darin Ray Sanders Bryan Joseph Schneller Jeffrey Paul Schroeder Matthew John Schwent lames Lewis Smith Mary Helen (Hunter) Stoltz Kevin Dennis Sullivan Marsha Rana Wayman (A) Darrell Keith Williams Jing-Shyang Yang Lori Renee (Wisdom) Young

#### Less than \$100

Caleb Alexander Michael Eugene Arbini Stuart James Beard Kevin Stewart Biggers Kevin Lee Brown



Hundreds of Missouri high school students came to Missouri S&T in 2011 to compete in the statewide championships for FIRST Tech Challenge. Missouri S&T will host the championship again in 2012 and 2013.

Brian John Collingham **Charles Christian Cook** Christina Rose (Duker) Cook George Martin Dover Lister Florence Steven Jerome Frank Tracy Gach Lamar Kohoutek Gerber **Zhenhao He** Bruce William Helvey Sean Henry Jason Michael Hughes Pete lennings Mark Benjamin Joersz Sherry Lee King Ari Ilko Kogut Andrew Yongwoo Kwon Xuan Lin Jennifer Lynn (Denton) MacDonald Daniel Marsh Janice Kaye (Stikkers) Mattox Brian James McKee Stephen Monaco Karen Patricia Murphy Valdez Wallace Newcomb Kimberly Ashton O'Keefe Murali Parthasarathy Marco Girolamo Pizzo (A) **Stephen Eric Post** Matthew Nathan Pritzker Frances Delia (Wingert) Pung Nikith Rai **Christopher Michael** Reiter (A) Jerome Anthony Riemann Steven Earl Russell Samantha Lynn Schneider Steven Walter Skikas **Craig Allen Sorensen** Wayne Allen Weber **Rvan Arden White** James Anderson Young Jr.

**Class of 1996** \$2,500 to \$4,999 Robert Sean Bartel \*

**\$1,000 to \$2,499** Bradley David Suddarth (A)

#### \$500 to \$999

Robert Carl Brown David Brian Cadoff Petra Dewitt Benjamin Todd Eldred (A) James Francis Fiechtl (A) Melissa Anne (Schahuber) Herberger (A) Jason Edward Holschen Christopher George Morlier Rebecca Ann (Chrisfield) Morlier Maria Diann (Speckhals) Twiehaus Michael Alexander Twiehaus

#### \$250 to \$499

Betsy Marie (Skiles) Dampier Dionne Ann (Roberts) Dillon Robert Alan Elick (A) Gerald Lynn Hagedorn Brian Thomas Kuhn Mark David Massman Sherri Dawn (O'Neal) Murrish Mindy Marie (Richardson) Peterson **Troy Andrew Peterson** Richard Jude Piepho (A) Kathryn Masterman Pimmel Kenneth Lee Voss Christopher James Ward (A) Jonathan Ellis Winter

#### \$100 to \$249

Laura Ann (Wilman) Alberswerth Michael Lewis Alberswerth Thomas Allen Alleman **Carla Bates** Samuel Boateng Scott Bybee Robert John Catlett Kevin Vincent Como **Donald Wayne Crites** Sean Joseph Daly Patricia Ann Davis Mark Raymond Ely **April Marie Evers** Matthew Ryan Evers Karen lo Gantt **Christopher Dennis** Gettinger David Robert Hamilton Jeffrey Joe Hedgpeth Raymond Alan Hoelting (A) **Matthew Louis Johnsen** Angela Diane (Herzog) Kolb **Douglas Joseph Kolb** Eric Lee Link Havva Malone Peter Angelo Manis Jeffrey Andrew Martin Teresa Helen Marvich Julie Elise Maurer (A) Kirk Alan Meinershagen Althea (Thomas) Micklewright Susan Petry **Timothy Edward Piper Rvan Polka Craig Louis Puder** 

Kristi Dawn Puder Christopher Allen Rahn Krittikamas Ratanapan Donald Arthur Richards Jr. Mary Elizabeth Rowe Eric Lane Schneider (A) Kevin lav Schwalie Marsha Anne Smith Kristopher Carl Snyder Rebecca Lee Steinman (A) **Xuewen Tang** Sissy Joy Theisen **Eric Jay Triplett** Chris Upp Sterling Evans Wainscott Scott Daniel Wareing

#### Less than \$100

Michael Erin Alley Jonathan Andrews Tony Lavelle Blue Shawn Robert Bogener

Heather Anne (Wyman) Boles Jason Lee Boles Mark Christian Bross Jared Roger Buckley Mark Anthony Crawford Jr. & Christopher William Dailey David Roy Dajc

Mark Worthen Deyoung Steven Craig Dumortier Jr. Cassandra Jean (Budde) Eno Jens Michael Erp Gary Stuart Graham Christy Gail Hargrove-Raska Anthony Michael Hatfield Susan (Harrison) Ivv Kerry Patrick Knott Robert Ray Krewson Steven Rogers Kunze Eric Stephen Landwehr Christy Lynn (Worrell) Lee **Darrell Ray Liles** Steven Michael Lusher Travis Allen Lynch **Christopher Michael** MacDonald **Richard Lee Marsh** Jennifer Lee Marshall (A) Karen Elizabeth McDonald Aaron William Metzger Dirk Moov Susan Jeanette (Medary) Moov Shannon Michelle (Lemmel) Pinkerton **Brian David Richardson** Carmela Rosario Cobarrubias Santos **Eric Dean Shumate Charles Scott Sloan** Karsten Mark Sommerhauser

Christina Anne Steck Gary David Stewart II Brandi Dawn (Smith) Stratman Steven Louis Stuckmever Joseph George Sueme III lenifer Rae (Binder) Tatum Bryan Matthew Tilley Daniel Joseph Troesser Shane Allen Vandendaele Joseph Todd Vaughn Chih-Liang Wang Darryll Joseph Weil II Fred Anthony Williams Renee Lynne (Wolfgeher) Woodley

### Class of 1997

\$2,500 to \$4,999 Michael Kristin Repperger

\$1,000 to \$2,499

Diana Alt 希 (A) Jason Leander Brinker

Melissa Ann (Lane) Ryan Dale Allan Spence (A) **\$500 to \$999** Eric Raymond Achelpohl Amy Suzanne Barnes Kenneth Thomas Erwin Chad Christopher Keith (A) Susan Elizabeth (Hunn) Shuff (A) William Anthony Tedesco (A)

#### \$250 to \$499

Kenneth Bandelier John Donald Brocke Tara Dawn (Deatz) Brocke Jeffrey Scott Dingrando Robert Adrian Etien III Allyson Taylor Hall Ryan Andrew Howell David William Jett **Todd Andrew Moore Jeremy Murrish** Gary Dean Pennell (A) Keith Alan Pimmel James William Quashnock (A) Jessica April Thomas Niemeier Elizabeth Lea (Zink) Ward (A) Scott Weinhold Tara (Kruep) Wentz (A)

#### \$100 to \$249 Anica Elaine (Winkle)

Addison Eric Maurice Bruner Bradley William Butler Chi-Ming Chang Harold Joseph Dickerson (A) Jason Paul George **Brian Lawrence Gilmore** Brian Ronald Harris Katherine Cooper Harris Daniel Robert Kammler **Christopher Dennis** Lammert Brian Douglas Marks **Christopher Matthew** Martin Joel Steven Mikelionis (A) Kevin Daniel Moll **Casey Patrick Morriss Mitchell Owen Poindexter** Barbara (Sooter) Prewett (A) **Michael Todd Reimer** Emily Ann (Donaldson) Rueck **Gilbert Sanders Marites Nunez Shields** Andrew Yutaka Shimamoto Jennifer Marie (Gaines) Shimamoto John Curtis Smith III **Douglas John Sobery** Joseph Michael Szabo Thomas Jackson Verell Jr. Emily Jean Wehmever Lucas Lee White Weiming Zhang

Johan Coppens

Less than \$100

Ramin David Ashrafzadeh Michael Joseph Baxter **Brian Charles Beyer** Vanessa Seung Soon (Paul) Beyer **Brian David Booth** Amy Bremer (A) Stacey Lin (Cranmer) Buenemann Gregory Kirk Bundy (A) **Eric Peterson Bunnell Richard Marion** Butterfield Jr. (A) Vicki Lynn (Koester) Cason **Robert Dean Cork** Mark David Cowell Sheri Lyn Cowell Carrie Anne (Williams) Falkenrath Karen (Flowers) Grahn Jonathan Craig Helm David Hill (A) Nieccole Marie (Newport) Hilliard **Derek Gene Hillstrom** Deborah Jill (Black) Huffman Thomas Morris Huffman David Chanik Im Andrew Michael Jansen

Laura Marie (Eversgerd) lansen Ganga Kanchana (Gubbi) Kathinokkula (A) Kathleen Marie (Stoverink) Liley Melody Lloyd **Rachel Catherine** (Limbaugh) Loddeke **Michael Douglas Luebke** Sandeep Malhotra Carolyn Rachel (Jones) Otten Michael Christopher Pauli **Michel Vincent Peloguin** Eric Evans Pietsch (A) **Trov Anthony Pinkerton** Scott Steven Preston (A) Patrick loseph Reilly Jennifer Marie Remley Brandon Lee Reneau Kevin Dale Robertson Lars Kristofer Seme **Chang Shen Daniel Edward Shepard** Jason Alan Sherman **Robert Wayne Simmons** William Lyle Simonton John Lawrence Simpson **Robert Wilber Speer** Ashley Nicole (Peifer) Stout Kathy Thomas Julie Sellmeyer Townsend Chetan Bharat Vora John Louis Weiland Charlene Wheeler (A) Darin Wayne Wilson Kenneth Dale Wohaska

#### Class of 1998

\$1,000 to \$2,499 Jamie Lynette Martens (A) Angela Beshears Privett Lance Stephen Privett Rebecca Ann (Scheidt) Shawgo Ryan James Shawgo

#### \$500 to \$999

Valerie Ann (Phillips) Holschen Gerrit Leeftink Jr. Nicolette Shirelle (Madison) Parson (A) Mary Theresa Williams (A) Russell William Young

#### \$250 to \$499

Shawn Aaron Bailey Sadie Marie Burke-Jones Jonathan Robert Crow Chad Robert Essary Jarrod Robert Grant (A) Ananda Amarasekara Jayawardhana

**Douglas Staley** 

Timothy Philip Johns Brent Larson Mydland Dustin Dale Olson Gayle Joan (Hoppe) Piepho (A) William Joseph Podrazik Bryan Bentley Rushing Micheal Addison Smith

#### \$100 to \$249

Steven Mark Beattie II (A) Tracy Renee (Davenport) Beattie (A) Peggy Sue Borrok Thomas William Brady Stephanie Marie (Held) Como Jennifer Lynn Cowan Steven George Cox Olivia Dawn (Miller) Crossman William Christian Crossman Adrian Christian Deneys (A) William Joseph Fellows Jerry Wade Gander (A) Joseph Greene Jonathan David Hey Ted Kenneth Hoog Jennifer Faye (Damron) Hopper Scott Matthew Hopper Laura Elizabeth (Gwinnup) Johnsen Ann Marie (Englehorn) Kausch Serena Jagtiani Krause **Todd Lippincott Stephanie Jo Marlin** lessica Lvnn (Sanson) Martinez (A) Jenny Lynn Maruschak Clav Allen McNail Phillip Louis Menkel **Craig Matthew Minarich** Eric Jeremy Neal Deborah Hummel Newman (A) Michael James Pessina Karen Lynn Rainey **Brad Alan Rucker Philip Stewart Saunders** Erin (Kenney) Schillie John Schillie Tanmay Shah (A) Mathew David Silver (A) **Ricky Allen Sisk** Amie Marie (Wood) Squibb (A) Stephen Michael Squibb (A) **Robert Wesley Sutton** Dovle Joseph Webb Michael Wallace Weber Douglas Dean Wood Julie Lynn (Achurch) Ziebold

#### Less than \$100

David Branden Alford Kerri (Matsumoto) Andrews

Kimberly June (Carson) Arnold Genevieve Marie (DuBois) Bodnar Lori Ann (Pratt) Bosch Adam Lloyd Burroughs Alicia Kathleen (Nickum) Byrd Samuel Martin Byrd Jonathan Edward Carmack lie Chen Seth Alexander Coggin Anna Marie Coplen Jennifer Lynn Delancey **George Augustine** Detchemendy IV Cynthia Robyn (Bartosik) Fischer Preston Lee Funkhouser IV Anita Maureen Hatfield Larry Thomas Henson II Arthur Allen Hersel Crystal Star (Mitchell) Jefferson <sup>4</sup> Christine Marie (Miller) Kasitz Adam Michael Loddeke Brian Scott Manus (A) **Christopher Stokes Maupin** Jessica Ann Neuner **Hugh Alton Parsons** Larry James Ragsdale Jr. Cassin Margaret (Alsop) Reiter Cory Matthew Reiter Joseph Benjamin Richards Jeffrey Albert Riepe Brandon Keith Risner Anand Santanakrishnan Arvind Chandrasekhar Sharma Roger Shiffler Joella Marie (Hubbard) Sommerhauser Jeffrey Paul Stricker **Craig Alan Switzer** Lynn Marie Taber Mark Allen Tschopp Jr. David Jonathan Tucker John Hardy Tucker Basak Uluca Charmaine (Saunders) Washington (A) Jennifer Dionne (Little) Weil **Ben Jason Weiler** Nicole Renee (Setser) Williams Alan Woodmansey Class of 1999

#### **\$2,500 to \$4,999** Terry Alan Bush

\$1,000 to \$2,499 Mark Edward Adelsberger \* Matthew Stephen Balven \* (A) Jonathan Mark Keller Taylor Aaron Lewick Justin Joseph Ryan Craig Ryan Skoch (A)

#### \$500 to \$999

Chris Michael Brueggen (A) Julie Marie (Stevens) Hirtz \* (A) Colin Tyson Miller Megan Jean (Jewett) Miller Andrew John Rich Craig Lynn Sebaugh

#### \$250 to \$499

David Allen Akers Jill Renee (Streifel) Akers Darren Leon Proctor Patricia Ann Robertson Jon Michael Schmidt Scott Ramsey Walker Charles Wipf

#### \$100 to \$249

Susan Dawn Book Kimberly Lynn Bosworth Peter Collins William Howard Dennis III **Brent Eric Deornellas** Jason Scott Dohrmann Junetta Alisa Duncan Julie Anne (Nowakowski) Gamble (A) Natalie Ann (Phelan) Hegarty Shane Michael Hegarty Shen Orin Jackson Callie Marie (Lyons) Jayne David Dean Jayne Michael Kausch Andrew William Keep Danielle Kleinhans (A) **Jeffrev Paul Krause** Gina Marie (Hurst) Long Jane Ellen (Brashers) Manis Adrian Andrew Marsh Robar Thomas Mike **Kyle Kenneth Mitchell Amy Leigh Jones Morriss** Marcia Naugle Matthew Gilbert Niemeyer Scott Pope Erika Maya (Middleton) Rezek Lane Reid Rezek Marcie Lanette (Moore) Rucker Rosanna Saindon Christina Ann Marie Sander Matthew Joseph Sander **Brian Jeffrey Sharp** Scott Lee Sigman Jeremy Spencer **Sutton Frissell Stephens** Heather Marie (Nations) Stevinson Michael Todd Stevinson Michelle Lynn (Buhr) Weimert Joshua Alan Welge

Melissa Wilson



Celebration of Nations promotes awareness, understanding and recognition of the cultural diversity in Rolla. The second annual event, complete with camels, was held in September in downtown Rolla.

#### Less than \$100 Anthony Arnold

**Richard Patterson Willson** Ayres David Christopher Bodnar Jamie Elizabeth Boos William Keith Borrenpohl Robert William Bosch John Bridegroom (A) Connie (Garrison) Burroughs Troy Donald Bussey Jr. **Timothy Nelson** Cunningham **Robert Gerald Eskens** Matthew Arthur Faerber **Carlos Robert Fernandez** Jeffrey Michael Fischer Brian Ray Gosnell Nathan Lee Higgerson Katie Ann Hillstrom Melanie Renee (Claxton) Jelinek

Stephen Craig Kadyk Kyle Allen Kershaw Paul Allen Kester Kimberly Michele (Moore) Kossmann Matthew James Kossmann Wendy Kathleen McGee **Miles Propp** Jeffrey Lee Purvis **Timothy Edward Robinson** Peter James Sayers Dawn Marie (Gomez) Stufft Christina Marie (Collins) Taylor Brande Layne Tucker **George Andrew Van Brunt** Jeremy Dean Vandenbark Sarah Vehige Jason Charles Williams Erik Jon Wilund Melinda Susanne (Lambeth) Winkelman

Thomas Joseph Winkelman Jeffrey Steven Zdenek Gina Ann Zientara

### Class of 2000

\$2,500 to \$4,999 Yogesh Trimbak Kulkarni

**\$1,000 to \$2,499** Christopher Shannon Geigel Wesley Tull Jr. (A)

#### \$250 to \$499

Thomas Barnes Joseph Daniel Drew Stephen Charles Gose Jason Jones Molly (Schneider) Laegeler (A) George Lovland Amy Pousson Joshua Sales

John Michael Schappe Jeffrey Gerald Thomas Stefanie Ann Voss (A) Keith David Winkler (A) Andrew Kenneth Wittenauer Zhiping Yang (A)

#### \$100 to \$249

Michael Joseph Ax Amy Kathleen (Sheahan) Banks Aaron Keith Barklage Amy Lee (Young) Barklage Jessica Dimitra Bigas **Thomas George Burns** Carmen Maria (Doudna) Carney **Robert Walter Cesaric** Amanda Beth Duchek (A) **Kurtis Eisenbath** Alissha Gayle (Bodenhamer) Feeler **Courtney Ryan Feeler** David Roland Fernandez Marc Friedman (A) Patricia Michelle Gregg **Timothy Warren Klein** Nancy Elaine (Harms) Knittel Bethany Anne Konz Kathryn Elizabeth (Holcomb) Lange Andrew William Ledbetter James Todd Lundberg Stephanie Barbara (Koenig) **McCarthv** Addie Jean (Schwartz) Mette Martin Gerardo Perez Justin Cory Pettijohn **Philip Prince** Ann Kathryn (Papke) Schmidt William Michael Siever Jennifer Kate Sigman Andrew Singleton (A) Kate Elizabeth (Wintjen) Spencer **David James Sullins** Heather Kimberly Teitelbaum Kerri Ann Vencato **Rodrick Demond Wilson** Jingning Wu

#### Less than \$100

Heather Ann Benhardt Craig Allen Buehler Travis Lane Burke Jonathan James Derner Richard Allen Ford Elizabeth Jean (Morris) Griffith

#### Denise Elaine (McMillan)

Hale Anthony Wayne Hilliard **Charles Patrick** Hogeboom IV Martin Eliot Kofsky Christopher Paul Kulifay (A) Nikki Renee (Washburn) Kurfman Colleen (Stucker) Machacek Mathew Christopher Michler **Eric Leon Morris** Gerald Lee Orick **Rhoda Parker** Jeremy Gene Pepper Jason Thaddeus Peterein Mary Elizabeth (Grass) Peterein Mark Christopher Quander Julie (Zuerlein) Rieffel Carrie Lvnn Rule Jason Schroeder Patrick Jon Schroeder Jeffrey Seaman 🐥 (A) Leilani Jacintha Spurlock (A) Jeremy Strohmeyer Joshua Benjamin Stufft Lawrence Homer Taber Laura Maria (Tomaja) Thill Michael Kyle Tilly Alicia Marie Weiman Jason Williams Mark Joseph Winschel Sarah Lynn (Palmer) Wiszkon Carrie Beth (Clay) Wright

Carrie Beth (Clay) Wright Zachariah Aaron York

#### Class of 2001

\$5,000 to \$9,999 Nicholas Joseph Ereckson (A)

#### \$500 to \$999

Timothy Alfermann (A) Cynthia Louise (Rabbitt) Jaggi (A) Ryan Douglas Jaggi (A) Candice Marie Kofsky Jeffrey Scott Morris Neil Alan Phipps Lingli Zhang

#### \$250 to \$499

Julie Kay Barton Lea Beatrice (Fromme) Gose Andrew Parry Laegeler (A) Michelle Nicole (Johnson) Lovland

#### \$100 to \$249

Matthew William Banks Joseph Lincoln Bauers Michael Justin Besancon

**Iill Elaine Bischof** Brian Michael Bosak Anthony Robert Clark James Scott Craig Eric Stephen Distler (A) **Ryan Charles Fritchley** Eric Steven Gamble Corie Allene (Reeves) Glenn **Melvin Eugene Harris II** Malcolm Edgar Hays Kevin Lee Hixson (A) **Charles Raymond Keim** Christina (Butner) Keim Matthew Cyril Kertz Bradley Rhey Kever (A) Cheol-Woon Kim Elaine Ann (Cozort) Lippincott Seth Austin Puls **Timothy Donald Schmidt** Kristine Ann (Miller) Shiffman

Charles Strauss (A) Matthew Swenty Jeanne Treasurer (A) William Davis Tyrrell Scott Vrtiska Jennifer Catherine (Ward) Whalen (A) Haifeng Zhou

#### Less than \$100

**Stephen Christopher** Babbitt Joshua Asa Clements Marie (Vogan) Cox **Brian Taylor Dameron** Jaclyn Rae (Langford) Dameron Jerry Allen Doughty **Chris Shannon** Edrington (A) Esther Anne Erickson **Timothy James Findley** Elizabeth Ann Ford (A) **Timothy Lynn Hand** Francis Taylor Humble Jessica Marie (Pence) Humble Rolanda Leatrice Hyman Lenny Ilvashov Toby Joseph Kemper (A) Kris Everett Kitchen Mark Krigbaum Mark Andrew Kurfman Phyllis Lewis Gina Lynn (Boots) Liles **Theodore Scott Morris** Michelle Lynn (Mertens) Neuner Samuel Pittman Kristy Ann (Rose) Rowe **Rvan Maior Rule** Sridhar Sana Bora Sar (A) Nicholas George Skupnik Umamaheswar Rao Srirangam Curtis Steven Stratman Marshall James Swingle David Thomas Weiman Brian Joseph Wright Nathan Everett Yampitz

#### Class of 2002 \$1,000 to \$2,499

Terry Brewer 4 Preston Wade Carney Michael Johnson Gretchen Rose (Gawer) Miller Cori Lock Nelson Joshua James Pieper Nathan Gabriel Rues (A) Natalie Noel Vanderspiegel

#### \$500 to \$999

John Robert Gordon 希 Margaret Ellen (Dickerson) Gordon 养

#### \$250 to \$499

Laura Schoenbeck Agee James Patrick Buckner Jason Michael Buenemann Donald Christopher Dwyer Christopher Lawrence Keithley (A) Kearney Jane (O'Connor) Szevery Richard Emil Szevery

#### \$100 to \$249

Nukhet Avkin-Burns Connie Lynn (Meyers) Bauers Erin Elaine Boren Brian James Carlson **Christopher Paul Carney** Jason Andrew Carter Adam Francis Christenson (A) Kathleen Kelly (Knecht) Crawford Elizabeth Sandefur DeBraal Jonathan David Gettinger **Rachel Jeanne Goeke** John Charles Howell Ir. **Elizabeth Marie Hughes** Jason Michael Jeffries Shannon Lea (Foil) leffries Lucie Beth Johannes Sean Erin Landwehr Joshua Glenn Lawalin Sean Michael Le Louis McCarthy Anthony Matthew Mueller (A) Dustin Ronald Penn Eric Salgat

Yuelin Shen Mahesh Shibarooru Shetty Steven Daniel Shiffman Justin Steenhoek Patrick Michael Travers Tara Nicole (Inman) Travers Patrick George Umphenour Jeremy Lee Watts Jiaqing Yu

#### Less than \$100

Candice Renee (Steffan) Babbitt **Brent Anthony Baker** Jason Beckerdite David Ryan Burd (A) Adam Lee Chamberlain Evelyn Fay (Barnes) Chamberlain Joseph William Clendenen **Marc Anthony Davis** Don Duncan Jr. James Michael Eidson Jr. (A) Jason Charles Elrod Laura Isabelle (Fisher) Gosnell Jared Lee Gregory Aaron John Groff **Joev Allen Hale** lavne Lvnn Huseman Chandra Sekhar Ionnalagadda Ladan Kamfar Kumar Siva Kathinokkula (A) Daniel James Koenigsfeld **Rachel Elizabeth Kuro** Shuhong Li William Elisha McGee Travis Kyle McKindra **Kevin Thomas Morrisey** Jeffrey Mueller Keith William Orf Christina Elizabeth (Braune) Ragsdale Theodore Nicholas Ragsdale Bryan Gregory Ramey II (A) **Christopher Reichert** Yvonne Michelle (Parisa) Sanders **Steve Lucas Stack Christopher Scott** Strickland Nathan Todd Tritsch **Ming Xin** 

#### Class of 2003

**\$2,500 to \$4,999** Daniel Jaye Bailey **\*** (A)

**\$1,000 to \$2,499** Ryan Michael Albarelli **\*** Ryan Scott Hutcheson Joseph Earl Miller Brandon Kenneth Wieschhaus 希 Jamie Marlene (Ferrero) Wieschhaus 希

#### \$500 to \$999

Justin Howard Bechtel Erin Marie (Wohlrab) Jearls (A) Justin James Wylam

#### \$250 to \$499

Robert Jonathan Agee Jami (Girard) Dwyer Nicholas Mason Gregg Rebecca Gail (Durham) Keithley (A) Lucas Burton Moore (A) Morgan Michelle (Anderson) Penn David Paul Spinden (A)

#### \$100 to \$249

Jane Theresa (Diecker) Accomando Christina Michelle (Welch) Avres Mitchell Eliot Barklage Nicholas David Benavides Rachel Lee Carter (A) **Michelle Cooper** Daniel James Davis Ir. Anthony Daniel Duehren Jeremy Wayne Glenn Kenneth Richard Goeke Peter Nicholas Heerboth **James Anthony Henken** Hui Hu **Michael Francis Knittel** James Benjamin Mette **Kishor Chandra Reddy Pitta** Sarah Jane (Cupps) Reeves Florian Sebastian Rueck Brett lames Scarfino **Erin Nichole Scarfino** Brian Patrick Schoene Henry Suter III Anna Marie (Newman) Swenty Andrew Stuart Turner Leroy Christopher White **Brett Elliott Wissel** Megan Leann (Marler) Wissel

#### Less than \$100

Andrew John Baker John Thomas Barnett III Lydia Brianna (Yarrington) Brownell Dale Thomas Chisholm Timothy Patrick Dean (A) Mark Scott Earl Cassandra Carlene (Watkins) Elrod

**Edsel Raymond Gacasan** Tricia Lauren Grass Joe David Guggenberger II Debbie Lynn Hickey Craig Kevin Kaibel Sophia Younjoo (Heo) Kim Gregory King Leann Nicole (Fantini) Kitchen Briehan Kay Larson Daniel George Lutz Ryan Jay Lynch Shilpa Suresh Mathkar **Michael Craig Mayer** Adam David Moore Andrew Robert Richter Kensey Walker Russell Christina Deborah (Huelsing) Scott Matthew Michael Scott Justin Jeremy Semsch Daniel Gerard Thill Katie Mae Weinkein (A)

#### Class of 2004

Sean Thomas Zuckerman (A)

\$1,000 to \$2,499 Andrew Christian Baughman Tessa (Russell) Baughman Nathen Lewis Hutchison Ivan Thomas Pajewski Geoffrey Edward Reedy

#### \$500 to \$999

Christopher Scott Ford Louis Bernard Jearls III (A) Curt William Kimmel Jack Robert Pennuto Jr. \* Craig Steven Stanek

#### \$250 to \$499

James Edward Duehning Jessica (Bennett) Duehning Craig Daniel Goodloe Robert Alan Riess Jr. Crystal Yvette Thomas

#### \$100 to \$249

Alicia (Turner) Adams Erik Carl Backus Ionathan Michael Ballmann Jonah Ray Brown lames Patrick Carson Ryan Warren Castor (A) Scott Dennis Clodfelter Amy Marie (Schneider) Crews **leffrev** Crews **David Christopher** Fennewald Scott Fonger Geer II Brian Philip Hallberg Darrell William Jacobs Kyle Jay Lampe (A) Lisa Marie (Hartman) Lampe (A) Joshua Joseph Martin

Amanda Jo (Robart) McClure Kevin Earl Orr Christopher Michael Reeves Jessica Marie (McCord) Robert Timothy Andrew Robert Michael Christopher Roche Elizabeth Alice Rutherford Jonathan Anton Sommer Melinda Sue (Worthington) White William Benjamin White Xilin Xu

#### Less than \$100

Jared Brewe David Robert Bubenik Aaron Kent Carrell Terrill Edward Carter II **James William Dean** Andrew Lawrence Draker 📥 (A) Mahmut Ekenel Joseph Henry Haggard Mark Thomas Heintzelman Phillip Lamoureux (A) Seth David Ledbetter Yan Liu (A) Luke Charles Miget (A) Alidad Mohammadi Diane Kaye Moore **Rachel Anne Mudd** Ryan Stelzleni (A) Christopher Haenchen Swallow Lyle Daniel Sykes James Matthew Wilkerson (A)

### Class of 2005

**\$1,000 to \$2,499** Karen (Schindler) Reedy

#### \$500 to \$999

Fiorella Giana Adam Henry Hilton Julia Catherine (Rosemann) Hilton . Jason Marc Miller John Jordan Tucker (A)

#### \$250 to \$499

Christopher Carden Maria Giuditta (Conte) King (A) Joshua Tyson Meyer Travis Heath Odneal (A) Justin Shaw

#### \$100 to \$249

Jennifer Leigh (Speidel) Baker Allison Onyx (Arnn) Cason Reid Brennen Catt (A) Andrew Christoff Christopher Paul Colbert Frances Lynn (Pratt) Collins Wesley Alan Collins Nicholas Correnti Leon Chico Hamilton Patrick Lewis Hammond Theodore Hoerr (A) **Meena Philips Hoffmann** Stephen Joseph Hoffmann Mark Ledrick Johnson (A) John Robert Keeven **Binggeng Lu** Grant Franklin Martin **Keith Edward Norton** David Andrew Oswald Melissa Kae (Veit) Parish Ryan Joseph Parish Russell Pate (A) Bren Andrew Phillips Abigail Elaine (Pittroff) Riess **Brian Joseph Shaver** Jason Heyn Sosa Sandra Marie Wagner-Martin Gail Michelle

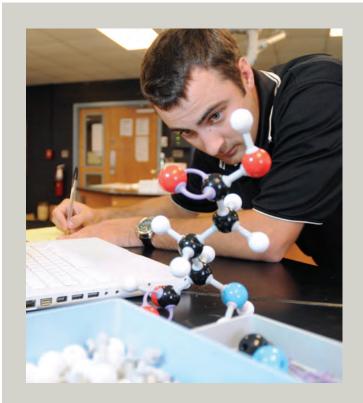
(Gerstenecker) Weidner

#### Less than \$100 Bridgette Ann (Berry)

Betz (A) Anthony Franco Blum **Sidney Christopher** Brownell Matthew James Castor Cody Dale Dennis (A) Kyle Aron Dieckmann Meghan Ruth Donnellan Cynthia Ann (Mulnik) Dunnaway (A) **Patrick Christian** Ferrario (A) Caleb Gebhardt Wallace William Handy Alison Elizabeth Ibendahl Steven Ingham Ion Stefan Janson (A) Akul Shantaram Joshi Minyu (Liao) Liou **Rvan Daniel Lowe** Jeffrey Lee Mayden Derek Ryan Mease **Robert Lauer Melsheimer III** Ashlev Mertens Angela Marie Mound (A) James Nnamezie Muo David Norberg (A) Andrew Jacob Pagan **Ernesto Mateo Rodriguez** Jason Michael Shafer **Michael Toecker** Robert Vetter Daniel Devin Wheaton

#### Class of 2006 \$1,000 to \$2,499

Lauren Kristine (Etheridge) Rieger



As Project Lead The Way's lead affiliate university in Missouri, S&T provides teacher training, professional development and information for counselors and administrators throughout the state.

#### \$500 to \$999 Katherine Ann (Clark)

Dambach Cory Alan Demieville Mary Peaslee Neil Allen Randol 🌲 Kira (Bluebaum) Wylam

#### \$250 to \$499

Jingjia Chen Jeremiah David King (A) William Travis Lewis Todd William Shelton Adam Vincent Tiehes Bryce Hedrick Wagner III Samuel Leroy Weeks

#### \$100 to \$249

William Brian Cason Miranda Ceballos Akash Choudhary Patrick Edward Driemeyer Justin Shane Gathright Jeffrey Joseph Gittemeier Benjamin Joseph Grau James Lee Guise Geoffrey Wayne Kleiboeker (A) Feifei Lu (A) Adam Ray Lucas James Campbell Moynihan Tina Marie Pankey Eric Pieper Ryan Martin Riess Anthony Roth Robert Anthony Rutherford Michael Jason Scherr Yingwu Teng (A) Robert Joseph Vaughn Joseph David Weaver Clayton Joseph Weidinger Joshua Alan Worley (A)

#### Less than \$100

Kristopher Edward Atkins Kwame Awuah-Offei David Michael Bash (A) Kellee Lynn (Henderson) Batten Nishant Bhardwaj Brian David Bloodworth David Andrew Cape Amberlee Beth Cook Ryan Thomas Davidson Christopher Jay Dunnaway (A) Elizabeth Suzanne (Hamby) Duvall

Sandhya Harikrishnan Amber (Robinson) Hayes Joshua Allen Hefti Daniel Blaine Huhmann **Emily Mae Johnson** Scott Edward Julien Amanda Chasteen Kinney (A) Rvan Thomas Kinney (A) Catherine Kuzmeski Konya Lynn Lafferty Michael Blanck Lancev Erik James Messner Joseph Stephen Michael Matthew Kruse Moser Andrea Marie Muller Michael Raymond Nilges (A) Philip Norfolk Aimee Rea **Eric Andrew Reuther** Darlene Patricia (Harris) Rich (A) Daniel Mark Riley **Justin Ryder** Jeffrey Robert Slane Jr. Chad Anthony Sommer (A) Benjamin Stuart Swoboda Melissa Christine Teague

Gregory Daniel Etter

Michelle Marie-Swenty Van De Mark Matthew Mark Voss Elisabeth Nealie (Dowil) Wells Charles Gerald Williams Thomas Jacob Wingard (A) Melanie Dawn Wulff Lori Ann Ziegler (A)

### Class of 2007

\$2,500 to \$4,999 Wendy Leann (Moore) Bailey \* (A)

**\$1,000 to \$2,499** Nathan Dean Rieger

#### \$500 to \$999

Joseph Michael Brunner Kurt Joseph Haslag Kelly Eileen (Kipp) Pennuto

#### \$250 to \$499

Richard Trynoski (A) Eric James Turner

#### \$100 to \$249

Nathaniel James Ayres Adam Joseph Blinzler Brandon Lee Brinkmeyer Lucas Philip Carr Mark Aaron Chapman Kevin Patrick Daut (A) Michael Robert Deuschle Kenneth Thomas Nathaniel Doering Daniel Joseph Drury **Ernest Wirnkor Fonyuy** Iohn Gantt Kyle Lee Guinn (A) Ashley Michelle (Salinger) Guise Peng Guo Jeffrey Thomas Lyle Haden Tieshu Huang Joseph Campbell Neumann Leslie Kaye Olson Amy (Boulch) Reeves Seth Reeves Karel Wesley Safarik Angella Marie Schulte Jamie Marie Shepard R. Phillip Shinn **Terrence John Silva Sison** Zane Timothy Voss **Brendon-Travis Sean** Weidner

#### Less than \$100

Ryan Thomas Andrews Pamela Sue (Herberholz) Bloodworth Ashley Suzanne Boudria Jonathan David Bridges

Matthew Joseph Brinker Justin David Bruemmer Adam Chadek **Christopher William Cook** Matthew Emmett Flint (A) Jordan James Foster Steven William Griffin Jeffrey Scott Hardesty Eric Robert Holzer Donald Steven Jackson (A) Jennifer Jacobi **Christopher George** Kavulich Samuel Herman Klimmek Matthew Kutz Weisheng Lin (A) Luke Douglas Mangrum Amy Lynn (Muchmore) Mueller Maureen Elizabeth O'Loughlin Ashley Lynn Rasnic **Clinton Eugene Roberts** Dillon Sperry David Michael Triplett (A) Jared Lee Wehde David Mark Weidinger

#### Class of 2008

\$500 to \$999 Devon Desire Rumbaugh

#### \$250 to \$499

Karl Hachmuth Michael Allen Hasty Brad Alan Leuther Kyle Rackers John Adrain Robinett Anne Catherine Schumer

#### \$100 to \$249

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Eric Farrow, EnvE'10, is a graduate student in environmental engineering from Cape Girardeau, Mo. Farrow is working with Jianmin Wang, associate professor of civil, architectural and environmental engineering, to reduce the arsenic content in rice. The research is funded by the U.S. Department of Agriculture.

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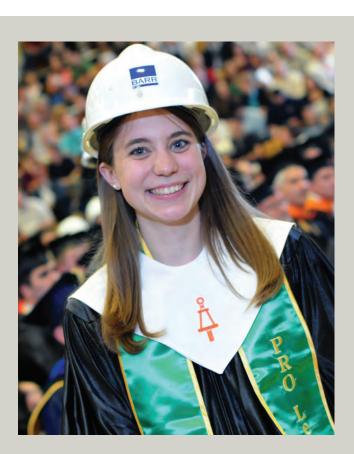
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Snake invasion began in 1912, four years after the first St. Pat's Celebration. Before 1944, every student carried a shillelagh. Today, it's just freshmen in student organizations. The traditional bashing of snakes is the first "event" of the annual St. Pat's Celebration. Fortunately for students (and the serpents), the snakes are plastic.

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Henry Brown '68 ╇ (A) William Brune '73 ╇ (A) David Bufalo '66 (A) Michael Busby '78 (A) Matteo Coco '66 🐥 Randall Dreiling '81 (A) John Eash '79 🐥 (A) Richard Eimer Jr. '71 🐥 (A) Richard Elgin '74 养 Shawnna Louise (Morris) Erter '00 Thomas Feger '69 (A) John Robert Frerking '87 (A) Daniel Frisbee '72 Rhonda (Reed) Galaske '79 (A) Vishwanath Gandikota '09 Arthur Giesler '77 📥 (A) Russell Goldammer '78 (A) Jarrod Robert Grant '98 (A) Helene Hardy Pierce '83 🐥 (A) Thomas Harrison '74 (A) Larry Hendren '73 🐥 Polly (Reed) Hendren '73 🐥 Gary Hines '95 (A) Delores (James) Hinkle '75 🐥 (A) Daniel Edmond lackson '90 (A) Ronald William Jagels '86 ╇ (A) John Keating '73 ╇ (A) Marylou Wade Legsdin '90 秦 Dennis Leitterman '76 🐥 (A) Peter H.F. Malsch '62 🐥 (A) Douglas Marquart '82 (A) Christopher Martin Mayberry '98 H. Edward Midden III '69 (A) Zebulun Nash '72 📥 (A) Quentin Cole Ortega (A) James Patterson '54 (A) Christopher Ramsay '83 ╇ (A)

Darlene Susan (Meloy) Ramsay '84 \* (A) Stephen Rector '72 \* (A) John Remmers '84 \* (A) Perrin Roller '80 \* (A) Susan (Hadley)

Rothschild '74 🐥 (A) Nathan Gabriel Rues '02 (A) Robert Scanlon '73 🐥 (A) **Michael William Schwartz** Andrew Singleton '00 (A) Gregory Skannal '85 秦 Dale Allan Spence '97 🐥 (A) Gerald Stevenson '59 🐥 Brian Ronald Tenholder '97 David Tepen '90 (A) John Toomey '49 🐥 Jon Vaninger '63 (A) Breck Ray Washam '90 🐥 W. Keith Wedge '70 🐥 (A) Mary Theresa Williams '98 (A)

#### Alumni Association Appointed Committee Members

Dewey Allgood Jr. Keith Bailey '64 ╇ (A) Marvin Borgmeyer '74 (A) Linda Boswell Bramel '89 (A) Ryan William Brunkhorst (A) Andrew Careaga (A) leffrev Cawlfield 🐥 (A) Randall Dreiling '81 (A) Gene Edwards '52 🐥 (A) Richard Elgin '74 养 Cecilia (Gutierrez) Elmore '86 养 James Foil '74 ╇ (A) Lawrence George 🐥 ┥ (A) Edward Hanstein '71 Wayne Huebner '82 🌲 Thomas Francis Hughes '91 Latesha May Humphrey Wade Jadwin KiDahn Lee Jones '06 Roger LaBoube '70 Dennis Leitterman '76 ╇ (A) Curtis Carl McDonald 养 Chervl McKav H. Edward Midden III '69 (A) Sarah Moore **Melanie Mormile** Mark Mullin Daniel O'Sullivan Jr. '82 Calvin Ochs '49 🖣 William Joe Peach '75 **Thomas Shipley** Kevin Skibiski '75 🐥 (A) **Kristyn Cartwright Smith** Lynn Stichnote

Joann Stiritz Mary Helen (Hunter) Stoltz '95 Dave Verkamp

#### Alumni Association Section Officers

Alycia Ann Ahrens '01 Daniel Thomas Aiken '06 Katherine Marie

(Thompson) Aiken '06 **\*** David Allen Akers '99 David Brian Akers '82 Robert Daniel Alferink '98 Paul Michael Balaster '02 Bret Baldwin '93 (A) Kenneth Bandelier '97 Jennifer Louise Bayless '89 Michael David Becvar '94 Frederick Bondurant '69 Glenn Whiteman Brand '83 Mindy Sue (Woodill) Brand '84

Christopher Brannon '85 Randal Braun '68 James Donald Bridges '00 🐥 Gretchen Brockfeld '90 Richard Alan Brown '83 (A) Steven Bruer '91 Matthew William Bryant '01 Courtney Ryan Buck '03 David Bufalo '66 (A) Ryan Lawrence Buschjost '94 Brian Thomas Call '97 Barry Lee Callahan '99 Janet Lynn (Herzberg) Callahan '99 Michael Robert Carlson '99 Preston Wade Carney '02 🐥 Scott Dewey Carney '86 James Carter '66 (A) James Cawvey '78 Erin (Gifford) Chamberlain '01 Charles Church '50 Edward Cole '65 **Christina Rose** (Duker) Cook '95 Kamila Jean (Crane) Cozort '85 Lori (Stapp) Crocker '88 (A) Sean Joseph Daly '96 Charles Robert Davis IV '01 Eddie Doss '80 (A) Theresa (Jochens) Dowdy '88 Randall Dreiling '81 (A) Kenneth Allen Drummond '86 Henry Pat Duvall '62 🐥 (A)

Curt Eggen '04 Lindsay Anne Epstein '06 Melanie (Longi) Ewert '07 Thomas Feger '69 (A) Carlos Robert Fernandez '99 Gary Fischer '76 David Freise '77 John Robert Frerking '87 (A) Bradley Alden Fulton '88 Collette Galaske '06 Amanda Tiffany

(Conigliaro) Garrison '07 Matthew Scott Garrison '08 Matthew Gebhardt '02 John Goethe '92 Mark Steven Goldsmith '94 Craig Daniel Goodloe '04 Kraig Gordon '76 🍖 (A) Dirk Lynn Gowin '91 Kevin Hagan '80 William Hallett '55 🌨 Gary Hamilton '71 Helene Hardy Pierce '83 ♣ (A) Kurt Joseph Haslag '07 Eric Daniel Hensley '97

Gary Hines '95 (A) K. Daniel Hinkle '73 🐥 (A) Roger Hoffman '62 (A) David Hollrah '70 Matthew David Houser '97 Alison Elizabeth Ibendahl '05 Nikodem Maria Jedrzejewski '98 Brian Joseph Johnson '02 🐥 Ernest James Jones Jr. '82 James Jones '71 (A) Anna Joy Kauzlarich '08 Phillip David Kauzlarich '08 Roger Lee Keller '75 J. Curtis Killinger '73 🐥 (A) Jeremiah David King '06 (A) Rachel Lynn Kluesner '08 Serena Jagtiani Krause '98 **Gregory Scott** Kremer '95 (A) Karen Kathleen Kremer '97

Charles Lahmeyer '66 Michael Shannon Lambert '90 Claire Iosias Lehman '08 Dennis Leitterman '76 🐥 (A) James Libiez '63 (A) Andrew George Lozier '06 Raymond Maag '50 Stephan Virgil Magenta '99 Peter H.F. Malsch '62 📥 (A) Jennifer Lee Marshall '96 (A) Mark Allen Martin Sr. '68 Victoria Lynn (Presser) Mattingly '99 Edward Alton May Jr. '83 Christopher Martin Mayberry '98 Laura Ruth McLaughlin '99 Alan Means '80 James Medlin '67 (A) H. Edward Midden III '69 (A) Lori Ann Miller '05

Thomas Karl Mills Jr. '02 Robert Morfeld '69 Dale Morse '79 养 Milton Murry '64 (A) Douglas Reed Niermever '89 Andrew Nolfo '71 Robert O'Brien '54 Kurt Benton Oakes '85 Salvatore Pagano '73 Jerry Parsons '70 (A) J. Michael Party '78 🐥 Thomas Phillips '62 (A) Deborah Rhea Prince '87 Olin Richard Raby '66 Larry James Ragsdale Jr. '98 Kem Robert Reed '84 Joseph Reichert '59 🐥 (A) David Reinke '72 (A) Andrew Rickard '83 Perrin Roller '80 🐥 (A) Russell Rymer Jr. '67 Stephen Saliga '87 Matthew Ryan Satterfield '05 Robert Scanlon '73 🐥 (A) John Schillie '98 Thomas Schneider '75 Joseph Wade Schumer '92 Jeffrey Seaman '00 🐥 (A) Rebecca Seaman ╇ (A) Sarah Mae (Hellmann) Simon '03 **Stephen Michael** Squibb '98 (A) Michael Steffens '73 M. Merrill Stevens '83 David Andrew Swartz '03 Janet Rebecca (Ragon) Swartz '06 Nicole Talbot '77 🐥 Brian Ronald Tenholder '97 Brian Edward Tipton '83 Jason Russell Trent '04 Steve Paul Trower '81 James Raymond Van Acker '98 Jonathan Roger Syler Van Houten '03 养 Robert Lee Villhard Jr. '85 Shannon Mitchell Walker '97 Jay Andrew Wallmark '91 Michael Warfel '75 Emily Jean Wehmeyer '97 Robert Weselv '70 Amanda Jean Withers '99 Paul Woods '96 Frank Yates '73 (A) Steven Eric Young '95 Thomas Zenge '69 🐥 (A) University of Missouri Alumni

Robert Bay '49 🔷 (A) Matteo Coco '66 💠 John Eash '79 🔷 (A) James Foil '74 🔷 (A)

Larry Hendren '73 养

Alliance

Darlene Susan (Meloy) Ramsay '84 ♣ (A) Susan (Hadley) Rothschild '74 ♣ (A)

#### Alumni Association Public Resource Ambassadors

James Anderson '55 🌲 Richard Arnoldy '69 🐥 (A) Arthur Baebler '55 (A) **Ernest Kelvin** Banks '81 ╇ (A) John Bartel '52 🐥 (A) Robert Bay '49 ╇ (A) Jerry Bayless '59 🐥 (A) Carroll Bennett '54 David Berg '57 James Berthold '60 🐥 (A) Gary Bockman '70 Jesse Bodine '50 📥 Kyle Boffa Greg Bolon '85 Lucien Bolon Jr. '59 🐥 (A) Craig William Borgmeyer '88 Craig Bowers '76 Travis lan Boysen John Branham '70 William Breig '62 **Richard Breitenfeld '62** Robert Bruce '69 (A) Earl Burk '70 (A) Peter Michael Burton '85 Kenneth Busch '72 (A) Robert Butchko '71 🐥 (A) Basil Buterbaugh '47 (A) Harold Butzer '47 🐥 (A) Jeremy James Bylo Michael Bytnar '68 ╇ (A) Donald Capone '58 🐥 (A) Danny Chilton '65 Louis Chiodini Jr. '61 William Clarke '74 🐥 (A) Matteo Coco '66 🐥 Melissa Rose (Benedick) Corkill '91 Ronald Craven '81 Karl Justin Dachroeden Kyle Wayne Darnell '06 **Daniel Roy Richard** Dillard '06 Stanley Dolecki '50 Randall Dreiling '81 (A) John Eash '79 🐥 (A) Kevin Eisenbeis '79 Richard Elgin '74 养 Thomas Ellis '75 Wilbur Feagan '76 养 Gary Fennewald '73 🐥 (A) Michael Ferretti '67 Jill (Miller) Finklang '87 Paul Fleischut '85 🐥 Lister Florence '95 Donald Fluchel '72 🐥 lames Foil '74 📥 (A) Michael Foresman '67 🐥 (A) Robert Freeland '60 养 John Robert Frerking '87 (A)

Lawrence George 🐥 ┥ (A) Jerry Gilmore '60 🌲 Nathan Louis Glave Jarrod Robert Grant '98 (A) William Green '68 养 Ronald Griesenauer '70 Ronald Halbach '65 (A) Harold Dennis Haubein '66 🐥 Larry Hendren '73 🐥 Robert Hoffmann '81 **Bradley Harry** Hornburg '69 养 Michael Hurst '74 ╇ (A) Zachary Kirk Husmann D. Freddie Ipock '76 (A) James Jackson '59 Ronald William Jagels '86 ╇ (A) Richard Janis '68 🐥 Paul Jobe Rollie Johnson '62 🐥 Richard Jordan '70 🐥 Philip Jozwiak '66 🐥 (A) Robert John Karmi '83 Leonard Kirberg '66 ╇ (A) Kraig Kreikemeier '63 🐥 Joseph Krispin '54 ╇ (A) Harold Krueger '42 🐥 (A) Richard Laughlin '75 ╇ John Lauth '72 (A) Gerald Lee '76 B. Neil Lewis '58 Russell Lindenlaub '66 Grant Alexander Lodholz Thomas Allen Loftus Louis Loos II '77 (A) James Lyons '66 **Chase Michael Martin** John Mathes '67 🐥 (A) William McAllister III '76 (A) Heather Cristen McClinton '06 Michael McComas '69 📥 Donald McGovern '58 🐥 Michael McMenus '81 T. Michael McMillen '67 🐥 (A) Edward Arnold Medler '86 Michael Meyer '75 🐥 Joseph Mickes '58 Adam Michael Mikulus John Miles '61 John Moore '57 **Christopher Benton Morris** Cynthia June (Black) Moses '90 Milton Murry '64 (A) Richard Navarro '70 Cori Lock Nelson '02 🐥 Michael Nelson '69 James Nicks Jr. '77 Amy Lynn Noelker '85 (A) Craig O'Dear '79 (A) Daniel O'Sullivan Jr. '82 John Parker '71 (A) James Patterson '54 (A) Ted Peachee '72

Daniel Frisbee '72

Joseph Gabris '80



Inside Castleman Hall, students put their artistic side to work, not just for fun, but in classes like this mask-making course, too.

Carl Gene Penzel '55 Veo Peoples Jr. '70 **Roger Phillips '74** R. David Plank '59 (A) Kenneth Pohlig '64 Charles Powell '71 Mary Ann Pulley '99 April Patricia Pummill Darlene Susan (Meloy) Ramsay '84 ╇ (A) Peter Redel '55 (A) Joseph Reichert '59 🐥 (A) Charles Remington '49 📥 Thomas Richter '73 lames Roberts '53 Susan (Hadley) Rothschild '74 🐥 (A) Todd Wayne Rush '82 Larry Rushing '66 Robert Mark Sauer '83 🐥 Harold Andrew Schelin Jr. '66 🐥 Charles Schmidt Jr. '67 🐥 Michael Schmidt '80 Thomas Schneider '75 Robert Schnell '78 Gary Schumacher '63 ╇ (A)

Paul Gerald Segura '88 Eugene Sehl Jr. '63 🚸 Christina Louise Sfreddo '94 Humbert Sfreddo '58 (A) Donald Shaw '69 William Shaw '49 Andrew Singleton '00 (A) Randall Lee Skaggs '89 Kevin Skibiski '75 🐥 (A) **Richard Smith '77** James Spehr '64 🐥 Frederick Steele '65 Claude Strauser '69 (A) Larry Strobel '61 Clifford Tanquary '57 Bruce Tarantola '51 🐥 (A) Kellev Ann (Iozwiak) Thomas '91 (A) George Tomazi '58 🐥 Gary Turner '66 James Van Buren '63 🐥 (A) Jon Vaninger '63 (A) Richard Vehige '68 养 Traci Lee Walker '00 William Walker III '84 (A) Glenn Windsor Warren '48 Walter Alan Warren '86

W. Keith Wedge '70 \* (A) Robert Wayne Whitehead '61 \* (A) Janet Louise Wickey-Spence '85 \* Robert Williams '74 \* Ronald Williams '63 \* Dyle Wilson '70 (A) Suzanne Acacia (Medlock) Wilson '91 Donald Wojtkowski '69 \* Lawrence Wolf '79 Marvin Woods '82 Robert Zagar '70 Raymond Zook '57

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Christina Rose (Duker) Cook '95 Daniel Jonathan Cool '99 Sarah Anne (Butler) Cowell '05 John Cox '79 Kamila lean (Crane) Cozort '85 Lori (Stapp) Crocker '88 (A) Steven Curran '79 Kyle Wayne Darnell '06 Charles Robert Davis IV '01 Mark Dieckmann '82 Daniel Roy Richard Dillard '06 Jack Thomas Donze '00 James Edward Duehning '04 Amy Marie (Jacks) Eggen '05 Clarence Ellebracht Jr. '64 Thomas Feger '69 (A) Michael Flannigan '81 **Bradley Flauaus '94** Lister Florence '95 James Foil '74 🐥 (A) David Freise '77 Bradley Alden Fulton '88 John Furby '65 Jerry Wade Gander '98 (A) Matthew Gebhardt '02 Fric Todd Gentles '02 Denis Patrick Gladbach '94 Adil Godiwalla '66 Mark Steven Goldsmith '94 John Robert Gordon '02 养 Margaret Ellen (Dickerson) Gordon '02 养 Dirk Lynn Gowin '91 James Grace '76 Jarrod Robert Grant '98 (A) Mark Gredell '79 Rachel Leigh Grodsky '06 Kevin Hagan '80 Daniel Hagen Jr. '04 William Hallett '55 📥 Benjamin Lee Hankins '81 Helene Hardy Pierce '83 🐥 (A) Richard Harwin '80 Ali Hashimi '87 Leigh Ann Hauser '03 Marcus Howie Hayer '10 🐥 Wilfred Hegg '73 Gary Heimbaugh '78 Larry Hendren '73 🐥 Polly (Reed) Hendren '73 养 Allen Lee Hentges '93 John Hentges '89 Jesus Hernandez S '78 **Russell Herring '59** Yoelit Hannah (Shapiro) Hiebert '81 Gary Hines '95 (A)

Delores (James) Hinkle '75 🐥 (A) Steven Douglas Hoernig '93 Roger Hoffman '62 (A) Thomas Holley '75 Jason Edward Holschen '96 lames Honefenger '72 **Rex Hopkins '42** Wayne Alan Hopkins '89 Steven Bernard Howard '93 🐥 Douglas Hughes '63 Thomas Francis Hughes '91 Bisma Husen '91 Alison Elizabeth Ibendahl '05 D. Freddie Ipock '76 (A) Nikodem Maria ledrzeiewski '98 Mark Ledrick Johnson '05 (A) Ronald Johnston '73 Ernest James Jones Jr. '82 lames lones '71 (A) James Keebler '75 🐥 Roger Lee Keller '75 John Greg Kellerman '82 养 Christopher Alan Kelly '03 Ted Kelly '77 (A) Duane Evert Keys '00 J. Curtis Killinger '73 🐥 (A) Jeremiah David King '06 (A) Natalie Victoria King '05 Trini King '05 Dan Eugene Klaproth '81 Kathleen Kozak-Miller Benjamin Kuddes '05 Michael Shannon Lambert '90 Amy Marie (Noel) Lampazzi '86 Richard Langenstein '87 Dennis Leitterman '76 🐥 (A) Steven Lett '73 Joseph Marvin Liefer '06 David Little Marie Little Sherry Yan-Shiaw Liu '87 Chin-Hwang Lo '84 Kent Lynn '85 养 Paul Michael Mack '91 Stephan Virgil Magenta '99 Peter H.F. Malsch '62 📥 (A) Keith Khan Mandachit '98 **Christopher Keith** Marlow '98 Michael Marx '77 Sandra (Turnbough) Marx '77 Dennis Mason '58 (A) Edward Alton May Jr. '83 Thomas May '66 (A) **Christopher Martin** Mayberry '98

Joseph McBride '70 Sandra (Hartmann) McBride '70 Robert McCann '80 Heather Cristen McClinton '06 Rannev McDonough '66 养 (A) Michael McEvilly '80 🐥 (A) John Patrick McGillivray '87 **Christine Medley** James Medlin '67 (A) Alexandria Latrice Merritt '03 David Louis Meyer '81 Michael Meyer '75 🐥 H. Edward Midden III '69 (A) Henry Edward Midden IV '95 (A) Bruce Miller '50 养 Lori Ann Miller '05 **Rex Miller** Thomas Karl Mills Jr. '02 Akinori Mivamoto Dennis Moore '80 Mark Moran '77 (A) **Diane Morrey** Joseph Morrey Robert Morrison Jr. '71 (A) William Moses '59 (A) Jeffrey Scott Mosher '94 Colleen Marie (Korman) Mukavitz '86 Bruce David Murray '83 Zebulun Nash '72 🐥 (A) Alfred Neiman '53 Parris Ng '00 Fred William Niemeier '95 Michael Lee Noble '91 Michael O'Brien '82 Kurt Benton Oakes '85 Ronald Ollie '73 Melanie Ann Overholt '00 David Owsley '61 Steven Parks '82 J. Michael Party '78 养 Casey William Patterson '10 (A) James Patterson '54 (A) lames Kenneth Pazdera '86 Jonathan Perry '87 Russ Pfeifle '74 养 Jennifer (Wang) Posda '76 养 Amanda Grabowski Posgai '99 Eric Potts '73 (A) Stephanie Prather '05 Olin Richard Raby '66 Larry James Ragsdale Jr. '98 Darlene Susan (Meloy) Ramsay '84 🐥 (A) Todd Steven Rastorfer '98 Kem Robert Reed '84 Walter Reed Jr. '69 (A)

Robert Riess Sr. '79 🐥 (A) Curtis Duane Robinson '03 Nathan Gabriel Rues '02 (A) Daniel Lewis Ryan 🐥 (A) Melvin Douglas Sachs '86 Stephen Saliga '87 **Gualberto Sanchez '78** Sehrazat (Omurtak) Saridereli '81 **Robert Meredith** Saxer '61 🐥 Robert Scanlon '73 🐥 (A) Stephen Schade '74 养 Erin (Kenney) Schillie '98 Philip Monroe Schloss '06 Ryan Schmidt '06 David Schmitt '80 🐥 (A) Jeremy Schnurbusch '05 **Robert Schoonover '79** Keith Schuette '77 Joseph Wade Schumer '92 Jeffrey Seaman '00 🐥 (A) David Thomas Seeburger '03 Christina Louise Sfreddo '94 Marshall Shackelford '76 Susan Marie Simmons '84 Andrew Singleton '00 (A) Gregory Skannal '85 养 David Skitek '67 Neil Smith '68 Joshua Robert Sneller '05 Boonchuav Srithammasak '93 Michael Steffens '73 Rvan Stelzleni '04 (A) M. Merrill Stevens '83 Robert Stovall '71 Edwin Paul Stuckey '82 Dawn Marie (Gomez) Stufft '99 Timothy Sutterer '85 Nicole Talbot '77 🐥 Michael Taylor '72 (A) Brian Ronald Tenholder '97 David Tepen '90 (A) James Kenneth Thompson '73 ╇ (A) Pedro Tumialan Dela Cruz '68 Leonor Valdez-Sanchez '05 Ionathan Roger Syler Van Houten '03 养 Jon Vaninger '63 (A) David Villafana '70 Leon Virtue '69 Joseph Vitali '59 Stephanie Lynn (Buffa) Vogt '03 John Voss '85 Kenneth Lee Voss '96 leffrev Edmund Ward '05 Michael Warfel '75 Cornelius Penny Weaver '07

Kevin Dale Renfro '85

W. Keith Wedge '70 🏶 (A) Todd Alan Wegner '07 Emily Jean Wehmeyer '97 Megan Noel Weston '08 Aaron Matthew Whitney '05

Roger Wiley '70 Elizabeth Ann Willis '00 Theresa (Allen) Wilson '82 Ralph Wolfram '50 Robert Wonish '75 Jeffrey Michael Wood '92 Thomas James Yanske '05 Steven Eric Young '95 Thomas Zenge '69 � (A) David Ziegler '85 William Ziegler '82

#### Alumni Association Class Coordinators

Angela Denise (Urbanc) Bachle '95 Arthur Baebler '55 (A) Craig Alan Bailey '90 🐥 Cvnthia (Gereau) Bailey '90 🐥 Gino Balducci '80 Campbell Barnds III '55 (A) Nicholas Barrack '75 Paul Benz '60 Gerald Bersett '65 🐥 Greg Bolon '85 Bruce Bramfitt '60 John Brown '85 Glenn Cordes '60 (A) James Edward Cornelison '65 Kamila Jean (Crane) Cozort '85 James Cunningham '65 **Randal Scott Curtis '85** Thomas Dittmaier '80 (A) Stanley Dolecki '50 Roger Dorf '65 🐥 (A) Eric Dunning '70 🐥 (A) William Farrell Jr. '65 Virgil Flanigan '60 Gregory Leonard Flieg '90 Susan (Turner) Flieg '90 Joseph Gabris '80 Michael Gilliam '75 Jerry Gilmore '60 养 Daniel Goodman '65 Don Gunther '60 🐥 (A) Amy Jo (Sauer) Haddock '95 William Hallett '55 🐥 James Hespen '55 Jeffrey Allen Hiller '85 Sharri Lynn (Riggs) Hiller '85 Gary Hines '95 (A) Delores (James) Hinkle '75 🐥 (A)



J. Richard Hunt '50 🐥 (A) Dennis Jaggi '70 🐥 Gregory Junge '65 🐥 (A) Robert Kadwell '65 **Richard Kaiser '55** Michael Kearney '60 (A) Craig Korkoian '75 Robert Kostelnik '75 Frederick Kummer Jr. '55 🐥 (A) Charles Kunz '50 (A) Edward Kyburz '50 (A) Roger LaBoube '70 Ronald LaManque '85 Shelly Ann (Backues) Lane '95 **Christopher Allen** Layton '90 John Legsdin '70 🐥 Thomas Manning '70 Charles McField Jr. '80 Michael McGath '70 (A) Cynthia June (Black) Moses '90 Walter Mulyca '65 (A) Fred William Niemeier '95 Jorge Ochoa '85 🐥 Robert Oetting '55 (A) Larry Oliver '70 (A) Robert Otto '65 John Padan '55 Laura Pagano '85 William Joe Peach '75 Katherine Ann (Stone) Phillips '90 Robert Leroy Phillips '90 **Christopher Michael** Reiter '95 (A) Perrin Roller '80 🐥 (A) Rayna Marie (Koopmann) Schrick '95 Andrew Singleton '00 (A) Gregory Skannal '85 养 Kevin Skibiski '75 🐥 (A) Anne Springer '70 Robert Strain '50 Amy Diane (Horst) Strauss '90 (A) David Tepen '90 (A) Charles Toedtman '65 Clvde Vandivort '65 Mark Viox '80 W. Keith Wedge '70 🐥 (A) Keith Wesselschmidt '80 Loren Preston Whetsell '90 lanet Louise Wickey-Spence '85 🐥 Robert Wille '80 **Kimberly Hoffmeister** Winslow '90 Michael Wisland '85 Ralph Wolfram '50 Kenneth Wood '60 🐥 (A) Robert Zagar '70 Alumni Association

**Office Volunteers** 

Jerry Bayless '59 🐥 (A) Donald Brackhahn 🐥 (A)

Nancy Brackhahn 🐥 (A) Linda Boswell Bramel '89 (A) Matteo Coco '66 养 Richard Elgin '74 养 Betty Eyberg '50 Joyce Fiebelman (A) Dixie L.B. Finley '68 🐥 (A) Lawrence George 📥 ┥ (A) Charles Hell 养 Wayne Huebner '82 🐥 Charles Remington '49 🐥 Angela (Beechner) Rolufs '84 W. Keith Wedge '70 🐥 (A)

#### **Athletics**

#### **Miner Booster Club** Officers

Jerry Bayless '59 🐥 (A) Jeanne Bowe Franklin Bridges Scott Caron Judy Jurotich Nancy Lentz ╇ (A) Mark Mullin **James Packard David Roberts** lames Standfast '81 Robin (West) Witzke

#### Scorekeepers, **Officials &** Assistants

Frank Blum Lee Buhr Patti Chism **Ronald** Collier Harold Fiebelman '66 (A) Megan Kean-O'Brien Donald Eugene Kennedy (A) Ronald Lynn Marshall Lynn McFarland **Richard Miller** Donald Olds R. Mark Potrafka Joey Rich Ioann Stiritz

#### **Volunteer Coaches**

Scott Caron Jerre Holloway **Lindsey Kiester** Todd Rehmert Chad Schatz Kandi (Wieberg) Spraggs '08 Heath Waters

#### **Volunteer Doctors**

**Christopher Johnson** Kevin Kline Debbi McCaul Donald McMullin **Robert Pearson** 

**Keith Peterson Denise Wunderler** 

#### **Jackling Jocks**

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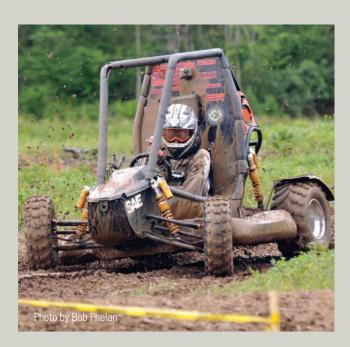
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Each year the Miner Baja SAE Team designs and builds an off-road buggy. The team, in its fifth year, is the newest competition team that operates under the Kummer Student Design Center umbrella.

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# Bob and Ginny Pahl

Photo by Don C. Harris Photography

#### Bob Pahl, ChE'68, MS ChE'70,

PhD ChE'74, was a student in Rolla when the "Old Chem" building burned in the late 1960s and was still a Rolla student when a new building was constructed in the early 1970s.

"In the almost 40 years since the new building appeared, time has taken a toll on both the old and new buildings," Pahl says. "The labs are falling behind the times and more space is needed."

Pahl and his wife, **Ginny**, recently contributed \$250,000 toward construction of a new chemical and biological engineering building at Missouri S&T. The university plans to name the building for **Jim Bertelsmeyer**, ChE'66, who gave the lead gift for the project.

The project is an important one to the Pahls.

"Ginny and I felt strongly about the need for the new building and the value that Missouri S&T provided to me in my career," says Pahl, who retired in 2004 following a 30-year career with Phillips Petroleum. "The new building will help the chemical and biological engineering department become one of the best in the nation."

Pahl says he and Ginny are a part of the Missouri S&T family and want to help in any way they can. And help they have. A member of the Academy of Chemical Engineers, Pahl has coordinated reunions for his class, recruited for Phillips and spoken at campus lectures. Ginny is on the board of directors for the Order of the Golden Shillelagh and Pahl is on the Provost's Engineering Advisory Board.

"We started to give back to the university as soon as we were financially able," Pahl says. "I arrived in Rolla in September 1964 as a wideeyed freshman in chemical engineering and left nine years later with three degrees, all in that department," Pahl says. "Ginny joined me in 1966 to continue her education in the math department. While she did not finish her degree, we both feel Missouri S&T is 'our' university and continue to support it."

*Editor's note*: Read more about the new chemical and biological engineering building on page 49.

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## Nothing beats a classic

It's no secret Miners love their cars, and there's no better evidence of that than the personalized license plates we see at alumni events around the country.

That's why we're dedicating our summer 2012 *Missouri S&T Magazine* to Miners and their cars.

We want to know your vehicle's make, model and year; how long you've owned it; and why you love your ride.

Email your information to alumni@mst.edu along with a photo of you and your car. We'll select the most interesting stories and vehicles to share.

Michael, ME'68, and Joyce Bytnar enjoy driving their 1967 Chevrolet Corvette Sting Ray.

