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01 Aug 2013

## Common Ground Newsletter Summer 2013

Missouri University of Science and Technology

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# common ground

**Civil, Architectural and Environmental Engineering**

*Helping students and alumni stay connected*

Summer 2013



competition  
results

page 15





## Message from the chair

The Civil Engineering Phonathon is just around the corner. In fact, the exact dates for this year's Phonathon are **Sept. 30 through Oct. 17**. Last year, the Civil Engineering Phonathon raised more than \$113,000 thanks to the participation of so many of our alumni. This level of support and participation continues to provide scholarships to students and supports many important research and teaching activities in this great department. My sincere and heartfelt thanks to all of you who participated — the support you have provided has helped make us a powerful force in civil, architectural and environmental engineering research and education!

Your gifts and generosity will help ensure that your department continues to sustain a high level of excellence in teaching and in research for future generations of civil, architectural and environmental engineering students.

Some of your gifts are used for undergraduate scholarships and graduate fellowships to recruit and retain outstanding students. Other gifts provide funds that help recruit and retain outstanding faculty members. Alumni gifts also help our student organizations compete in regional and national design competitions (concrete canoe, steel bridge, solar house, etc.) and sponsor student participation at national engineering and leadership development conferences. Still other gifts support lectures by visiting civil engineering professionals and field trips by students that enrich their classroom learning experiences.

Your gifts also provide the flexibility the department needs to meet unforeseen challenges and to take advantage of opportunities as they arise. Modernizing

and maintaining laboratory equipment and computer facilities will forever remain a challenge as we endeavor to educate our students using equipment and software they are likely to encounter in professional engineering practice.

You will soon receive a phone call from a student who is currently enrolled in one of the department's three undergraduate programs. Be sure to keep an eye out for calls from 573-341-6XXX, MO UNIV SCI TECH or possibly UNKNOWN on your caller ID because that's Rolla calling! Last year we had an unusually high number of unanswered calls — and we'd like to avoid that this year, if at all possible.

Many of you worked on the Phonathon during your student days, so you know the kind of effort it takes. Along with making a pledge, please take time to talk with the caller. Our students always appreciate your encouragement and any career guidance you are able to offer them. A few days after your call, you will receive a letter by mail. Please include your company's matching gift form (if your company is a matching gift contributor). With your help and support, we will continue to grow this department to be one of the most successful and distinguished engineering departments in the country. Any amount you give will be appreciated, and most importantly, you will make a positive difference in the lives of our students.

Thank you for your continuing loyalty and generosity. If you are able to make it back to campus during Homecoming (or at any time), please stop in for a visit. We'd love to see you!

— **William P. Schonberg**  
Professor and Chair

# Kittrell receives Myers scholarship

**Elise Kittrell**, a graduate student in environmental engineering, was awarded the Donald D. Myers Scholarship for the 2013-2014 school year in recognition of her extraordinary service to the community and campus.

“Elise was selected from a very competitive pool of applicants because of the meaningful impact she has made through her service, her ability to lead and inspire others, and her commitment to continue serving throughout her life,” said Kathy Withrow, a member of the student selection committee.

Kittrell has combined her academic studies with a pursuit of environmental justice and she worked to engage young girls in STEM education.



**Elise Kittrell**

The scholarship is named for Donald D. Myers, a professor of engineering management at Missouri S&T for more than 30 years. The Donald D. Myers Scholarship, established in 2009 by his family with the generous contributions of his many friends, is an annual tribute to his extraordinary life of service.

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## Chancellor's Fellows poster winners

Four Missouri S&T graduate students (two from CArE) recently received awards for their submissions to the third annual Chancellor's Fellows research poster presentation. An awards banquet was held in April and 12 posters were displayed. Chancellor's Fellows are selected based on academic excellence and other competitive criteria.

The two winners from our department were:

- **Third place: Jordan Lee Wilson**, a graduate student in environmental engineering from Nixa, Mo., for his research on using beach modifications and waterfowl management to control E. coli contamination at Lake of the Ozarks State Park.
- **Honorable mention: Grace Harper**, a graduate student in environmental engineering from Wentzville, Mo., for her research on green infrastructure as an alternative to large-scale grey infrastructure projects for stormwater management.



Photo by B.A. Rupert

From left to right: Provost Warren K. Wray, Grace Harper, Jordan Lee Wilson, Jaime George, Krista Limmer and Chancellor Cheryl B. Schrader.





ENGINEERING ...

WITH A

TWIST

BY MINDY LIMBACK

Photo by B.A. Rupert



**WESLEY HACKETT IS NO STRANGER TO WORKING WITH LIGHTS —  
FROM THE DRAFTING TABLE TO THE STAGE.**

**Wesley Hackett** knows a good problem when he sees it. And he loves problems. Perhaps that explains why he's a huge fan of the Rubik's Cube, the iconic 3D puzzle from the 1980s. In fact, he has at least five different models of the twisting object, from the simple 2x2 Mini Cube to a V-Cube 7 that has more than 200 pieces.

It may also explain why this architectural and civil engineering major from Garland, Texas, has been so involved with a variety of student design teams.

"I was a driver for the Solar Car Team at the Formula Sun Grand Prix in 2011 and traveled to Honduras with Engineers Without Borders that same year," he says. During that trip to Santiago, Honduras, the EWB team cleaned and resealed the 40,000-gallon water storage tank and installed pipe to improve the water distribution systems.

"There are so many different opportunities to get involved around campus and so many ways to get your voice heard and be recognized for your hard work," he says.

Those same hands that can solve puzzles and reach out to help others have also

designed miniature bridge structures, packed a skydiving chute, set the stage at Leach Theatre and created freehand sketches.

He credits **Heath Pickerill**, director of the Missouri Local Technical Assistance Program, for that last one.

**“ I WAS A DRIVER FOR  
THE SOLAR CAR TEAM  
AT THE FORMULA  
SUN GRAND PRIX IN  
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BORDERS THAT SAME  
YEAR. ”**

"I give him a hard time," the junior says. "ArchE 203 (Architectural Engineering Design I) has been the hardest class so far but it's helped my drawing and sketching abilities."

A first-generation college student, Hackett will need those skills as he enters the job market next year. He's already got his sights set on a construction company in Texas, too. But before he takes that first job, Hackett says he'd like to spend a year with a theater road show.

"I really wanted to be an actor when I was growing up," he explains. "I'm not giving up on that dream, but I feel like working for a construction or design firm would be a much better day job than waiting tables while I wait for an acting gig to come around."

## Devin Dixon: Going the distance

By Andrew Careaga

Devin Dixon has completed seven marathons and an ultramarathon.

Photo by B.A. Rupert

Like any dedicated marathon runner, **Devin Dixon** knows how important it is to keep a steady pace. But judging from the way he's speeding through three S&T degrees in just over six years, you'd think he was a sprinter.

Dixon double-majored in civil and architectural engineering, earning both bachelor's degrees in May 2011. He stuck around to pursue a master's in civil with an emphasis in geotechnical engineering.

Working with Dr. **Ronaldo Luna**, Dixon has conducted research on the Foothills Parkway Bridge project in the Great Smoky Mountains National Park in Tennessee. Specifically, he has monitored the performance of load-transfer mechanisms in the micropiles of one of the bridges, located near Pidgeon Forge, Tenn. Micropiles are devices used to secure bridge foundations into the ground.

The great outdoors has always attracted Dixon. When he was a boy, the Edwardsville, Ill., native dreamed of becoming a paleontologist. "I watched Jurassic Park constantly and I had a bunch of dinosaur toys," he says.

Dixon was involved in the Student Union Board, serving as director of SUB's Outdoor Activity Rental in 2007. He was also active in his fraternity, Sigma Chi, throughout his time at S&T.

"Fraternity life was really a positive influence on my life," he says. "It allowed me to branch out and develop myself as a well-rounded man."

And he has continued his running while at S&T. He's completed seven marathons and, in April 2012, his first ultramarathon — a 50-mile race called the Frisco Fifty, held in Willard, Mo.



Photo by B.A. Rupert



# Schranck selected to **Capital One** Academic All-America team

Missouri S&T senior swimmer **Andrew Schranck** was named to the Capital One Academic All-America team for the 2012-13 season, making him the sixth S&T student-athlete to earn the honor during the recently completed athletic campaign.



**Andrew Schranck**

Schranck was selected to the third team on the Academic All-America at-large squad, which covers all of the sports that do not have a specific Academic All-America team chosen in the Capital One program.

Schranck, an architectural engineering major and a four-year member of the Miner program, earned 21 All-America awards during his career and won a pair of honorable mention All-America honors last season as one of seven Miners to compete at the NCAA Division II Championships. Schranck won his awards as part of S&T's 200- and 400-yard medley relay teams.

## Schranck and Brinkmeyer earn **student-athlete** award

Two seniors from our department were named recipients of the 2013 Gale Bullman Award in May. This is the most prestigious award given to student-athletes at Missouri S&T. The men's award this year was shared by students **Andrew Schranck**, a civil and architectural engineering major on the swimming team, and **Spencer Brinkmeyer**, a civil engineering major on the soccer team.

Schranck won the 200-yard butterfly at the New South Intercollegiate Swimming Championships, his fourth career title in the meet, and earned two honorable mention All-America awards at this year's NCAA Division II Championships. In his four seasons with the Miners, Schranck earned 21 All-America awards.



**Schranck**



**Brinkmeyer**

Brinkmeyer, a defender for the Miner soccer team, was named the National Soccer Coaches Association of America's All-Midwest region squad in 2012 and was a three-time All-GLVC selection. He also earned academic all-district honors for the 2012 season as well, while on the field, he anchored a defensive unit that held their opponents to only 13 goals in 16 games and posted nine shutouts.

The Bullman Award is named after the university's former director of athletics and long-time football coach, Gale Bullman. It is traditionally given to a senior student-athlete who has displayed outstanding character and excelled both on the playing field and in the classroom.





**Mahdi Arezoumandi**

Photo by B.A. Rupert

# Arezoumandi receives NEVADA AWARD FOR BRIDGE RESEARCH

By Mary Helen Stoltz

**Mahdi Arezoumandi**, a doctoral student in civil engineering at Missouri S&T, has received international recognition for his research to improve bridge safety by using a stronger, more environmentally friendly concrete in modern bridge construction.

Arezoumandi received the 2013 Nevada Medal for the Distinguished Graduate Student Paper in Bridge Engineering from the University of Nevada, Reno. The award carries a \$1,500 prize and includes publication in several professional journals.

Fly ash, a by-product of coal-fired power plants, has been used in concrete for decades, but conventional mixes call for 25 percent of the product. Arezoumandi studied the use of higher volumes of fly ash — between 50 and 70 percent — and found that the resulting concrete showed comparable or higher shear strengths.

Increasing the volume of fly ash in concrete will also allow for the reduction of Portland cement, the active ingredient in concrete, which generates a significant amount of carbon dioxide, Arezoumandi says.

“Not only does the fly ash improve the concrete, but its increased use will also remove a significant amount of material from the solid waste stream,” he says.

The Nevada Medal, which has been given since 2001, recognizes outstanding

graduate student contributions to state-of-the-art bridge engineering. The award is funded through an endowment established by Simon Wong Engineering of San Diego. Wong earned bachelor of science and master of science degrees in civil engineering at the University of Nevada, Reno.

**“Not only does the fly ash improve the concrete, but its increased use will also remove a significant amount of material from the solid waste stream.”**

**– Mahdi Arezoumandi**

Paper submissions were evaluated by a group of experts in bridge engineering research and design.

Arezoumandi studies under the direction of Dr. **Jeffery S. Volz**, assistant professor of civil, architectural and environmental engineering at Missouri S&T.

# Environmental students help out during *Spring Break*



Instead of partying, lying on the beach or catching up on their sleep, a group of S&T environmental engineering students spent their spring break this year doing service work in Biloxi, Miss.

The students were involved in S&T's Miner Challenge, a week-long alternative spring break program that gives them a chance to help individuals and communities affected by issues like poverty, homelessness and natural disasters, while developing their own leadership skills. This is the sixth year of the program.

Students from our department that traveled to Biloxi, worked on environmental restoration of the Gulf Coast. They helped build an oyster reef on one of the barrier islands, restored a natural habitat for the endangered Mississippi Sandhill Cranes, put up bird feeders and cleaned up a river at a local public park.

"Everywhere we went the people were so appreciative of our efforts to restore and protect these natural environments. I am inspired to continue helping people and it was a great opportunity to work on environmental issues in the real world," says **Elise Kittrell**, one of the team leaders.

Visit the Miner Challenge website at [minerchallenge.wordpress.com](http://minerchallenge.wordpress.com) to learn more.

Environmental engineering students pictured from left to right are: Carol Pint (a senior from Evanston, Ill.), Courtney Kulinski (a sophomore from Brookfield, Ill.), Elise Kittrell (a graduate student from Jensen Beach, Fla.), Molly Prickett (a senior from Kearney, Mo.) and Mary Puleo (a sophomore from St. Louis).







## Water Environment Federation (WEF) ✨

This past year, WEF students got their hands dirty in a river clean-up, sinkhole clean-up, stream team activities and a tie dye station at Earth Day. They attended WEFTEC, the Water Environment Federation's annual Technical Exhibition and Conference and the Missouri Water Environment Association (MWEA) annual conference. New officers were elected and the group toured various wastewater treatment plants in St. Louis. They also brought in several speakers who spoke about careers that dealt with water. This past semester, WEF won the title of "Most Improved Organization" at the Student Leadership Awards.



## Friendships and fun! ✨

### American Concrete Institute (ACI)

S&T's ACI Chapter had a great year. The chapter sent two teams to the Fall 2012 Convention in Toronto for the Egg Protection Device (EPD) Competition.

In the spring, two teams traveled to Minneapolis for the 2013 Convention. Minneapolis hosted the Fiber Reinforced Polymer (FRP) Beam Competition where Team No. 2 won third place in the load-to-cost category out of 31 teams.



Pictured at the Minneapolis Convention, from left to right, are: Marcus Eckstein, Scott McDonald, past ACI president and Jeffrey Mayer, new ACI president. ✨



# design teams



## Concrete Canoe

**Goal:** Design a concrete hull that minimizes drag in the water, is strong enough to support several paddlers, remains buoyant when completely filled with water and is as lightweight as possible.

You probably wouldn't think about the technology involved, but there's a lot more to it than just getting wet. Students must conduct strength tests on concrete samples that precisely match the canoe's materials, just as any engineering firm would do when building a skyscraper or flood-control dam.



*Team leader Sonya Snyder and her crew took full advantage of new capabilities in the Student Design and Experiential Learning Center (SDELG) by using a CNC mill to cut out the boat mold cross sections. Applying advanced technologies significantly reduced the labor necessary to shape the hull and made the process more energy, space and material efficient.*



### Mid-Continent Concrete Canoe Regional Competition Results:

Women's Sprint	3rd place
Men's Sprint	3rd place
Co-ed Sprint	2nd place

S&T students learn to plan, finance, design and implement real-world projects, blending their technical designs with the critical communication, business, project management, and even safety skills necessary to make the team, their projects and eventually their careers successful.

# Engineers Without Borders

**EWB:** Team members do amazing humanitarian work, bringing infrastructure engineering solutions to remote communities in Central and South America. Clean water, sanitation and erosion control are just some of the quality-of-life challenges S&T students take on. In exchange Miners get global engineering experience and the satisfaction that they *can* make a difference one community at a time.



## Destinations & Updates 2013

### Los Eucaliptos

*May 23 - June 6*

Worked with a well driller to provide the community with a reliable water source and monitored erosion control and surface water projects.

### Nahualate, Guatemala

*July 5-25*

Students continued their work on the community's distribution system by installing a pump and laying the groundwork for a chlorination system.

### Tacachia, Bolivia

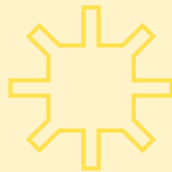
*July 3-12*

The team built a cable-suspended bridge to support a water line across a river to complete the community's water distribution system.

### Santiago, Honduras

*August 1-10*

Began a chlorination project, installed a pump and conducted lead studies.





# design teams

## Solar House

S&T's Chameleon House entry into the U.S. Department of Energy Solar Decathlon is bigger and more complex than its previous four solar village structures. And it has to travel twice as far.

The 2013 competition moves west to Irvine, Calif., significantly increasing the logistic challenges, engineering requirements and cost of this project.



The Miners design concept has a 1,000-square-foot adaptable living environment, modeled after the team's chameleon mascot: Folding walls, dual-purpose furnishings and convertible rooms make the house attractive to a wide market of potential buyers. The integral radiant heat concrete floor provides thermal mass and cold-weather comfort using the sun's thermal energy as well as photovoltaic power. This decathlon requires each entry to meet California seismic engineering requirements regardless of each structure's final destination, and the projected cost of each structure is figured into the scoring for the first time.



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## Steel Bridge

S&T's Steel Bridge Team qualified for the national competition for the second time in five years by taking second place at the American Society of Civil Engineers' Mid-Continent Student Conference at Southern Illinois University-Edwardsville.

At the regional event the Miners built their bridge in 11 minutes, 6 seconds with 2 minutes, 30 seconds of penalties, taking first place in construction speed, first place in construction economy and second place in structural efficiency.

.....  
**Bridge Weight:** 155 pounds  
**Number of Pieces:** 44  
**Back Span:** 12 ft. long  
**Cantilever:** 3.5 ft. long  
**Shop Time:** 750 hours



*Team leader Sarah Padgett reports S&T came in 34th overall out of 286 teams at the ASCE nationals in Seattle.*

*The Miners knocked 15 percent off of their previous best assembly time and reduced their penalties by a staggering 90 percent.*

*The event is scored on cost and performance where bridges are assigned a dollar figure based on the scale model's weight, aesthetics, assembly time and stiffness.*

*In the month between regionals and nationals, the team lowered its projected contract price of an actual bridge by \$2 million.*

*Jermy Jamison takes the reins for 2014, with a team goal of returning to nationals.*







# Stay connected

Have you recently been promoted, gotten married or had a little Miner? We want you to share your personal and professional accomplishments.

email your news to: **care@mst.edu**

## 1940s

**Roy B. Deason**, CE'49: "Turned 92. Don't do much except visit the Smokey Mountains and wet a hook every now and then. June is already in heaven and so is our son, Greg. The best to all of you."

**Edward O. Wakefield**, CE'59: "My wife, Lynn, and I are doing well and have moved to a retirement community in Kirkwood, Mo. We are planning two weeks in Puerto Vallarta, Mexico, and the summer at our place in Wisconsin."

## 1950s

**Eugene A. Bartels**, CE'50: "I turned 87 on Aug. 27."

**Gerald A. Bramon Jr.**, CE'59: "Married 63 years and enjoying life."

**Gilbert L. Crowell**, CE'51, is now 87 and lost his wife, Marie, in November. "We were married 64 years. Our son, Random, and daughter, Darlene, came from Texas to be with her the week before she passed. Our youngest son, Patrick, was already here with us in Vista, Calif." Crowell and his wife traveled extensively during their marriage, including spending a week in Hawaii for his 75th birthday.

**Nicholas Schurick**, CE'53: "Enjoying my time with my granddaughters Jacqueline, 13, and Elizabeth, 10, and grooming them to be engineers."

## 1960s

**John V. Andesilich**, CE'66: "It's good to be back in St. Peters, Mo., after three years in Texas and nine months in British Columbia. I completed projects as construction manager for Roberts & Schaefer Co., including two coal-fired power plants. My wife, Laura, and I enjoyed visiting Texas relatives and Canada was beautiful — lots of wildlife every day. Now we are enjoying our children and grandchildren. Our granddaughter, **Jordan Swing**, is in her last year at S&T majoring in civil and architectural engineering."

**Charles H. Atkinson**, CE'65: "Thanks in large part to my education in Rolla, my wife, Jan, and I are enjoying family and golf in the desert and mountains of Arizona."

**Dave Bufalo**, CE'66: "The GTO clubs in Denver and northern Colorado were invited to show their GTOs at the Forney Museum of Transportation in Denver. I never thought I'd see the day when I'd be part of a museum piece. I am very pleased to have my 'Goat' in this show." Bufalo's 1966 Pontiac GTO was pictured on page 5 of the Fall/Winter 2012 issue of *Missouri S&T Magazine*.

**James W. Cumper Jr.**, CE'67, MS EMgt'74, retired in May after 44 combined years with the U.S. Army and the Corps of Engineers.

**Edward G. David**, CE'63, is looking forward to the 50-year reunion.

**Walter H. Dickens**, CE'60: "Betty and I are retired and still live on Highway MM in Dixon, Mo. Classmates, friends and relatives are always welcome to sit and visit on our porch. When the weather is uncomfortable, we will move inside."

**Wayne C. Harvey**, CE'69, gave the keynote address at the Dr. Martin Luther King Jr. Freedom Celebration held at the Saint Louis Art Museum on Jan. 14. He represented the Epsilon Lambda Chapter of Alpha Phi Alpha Fraternity Inc. He is senior partner and founder of Wayne C. Harvey & Associates law firm.

**Phil Jozwiak**, CE'66, was named 2012 Engineer of the Year by the St. Louis Chapter of the Missouri Society of Professional Engineers. He is vice president of Geotechnology Inc.

**Ralph H. Lueck**, CE'68: "My wife, Lora, died in 2009. I married Lois in 2010. We have been doing a lot of traveling in the U.S. and have been busy at church. Try to see some of the solar car races since my daughter, **Gail [Lueck**, EMgt'02, MS EMgt'03] is in charge of them."

**William E. Mathews**, CE'61: "We continued with our SpaceA Adventures (Military Flights) in 2012. Our March trip

was to visit both of our fathers' locations during the wars. We visited many towns in Normandy, FR area, where Judy's father was stationed in WWII. We found his quarters (home) in Charleville-Mezieres, France. We also visited Qudenaarde, Belgium and Flanders Field, where my dad served toward the end of WWI in 1918."

**Warren R. Stanton**, CE'67: "The education I received from Missouri S&T allowed me to spend 38 years of satisfying work with the Kansas Department of Transportation as a professional civil engineer. For the past six years, I have served as the pastor of First Baptist Church in Columbus, Kan."

**Alfred J. Thiede**, CE'65, MS CE'72, MS EMgt'72: "Planning trips to Chicago for my 60th high school reunion and the 55th anniversary of earning my bachelor's in chemistry from DePaul University. Also plan a two-week trip to Copenhagen with a Baltic cruise and to Edinburgh to visit family. Spent four-and-a-half months in Southern California last spring. Good luck. Stay tuned."

## 1970s

**Lee Austin**, CE'71, and his wife, Marti, celebrated the marriage of their son, Eric, to Emily, daughter of the late **Ron Choura**, EE'71, and his wife Nancy, in September 2011. "Appropriately, for kids of Miners, they became (EAA)<sup>2</sup>."

**Michael J. Busby**, CE'78: "Our son, Andrew, plans to complete his degree in mechanical engineering at S&T this fall. The tradition continues!"

**Jeff Busby**, EMgt'08, and Kelsey Hall, EMgt'11, were married on May 29, 2011. Jeff's parents are **Michael**, CE'78, and **Barbara**, MinE'79, **Busby**.

*(continued on the next page)*

**Salvatore “John” Calise**, CE’79, MS CE’81: “My daughter, Meghan, graduated college to teach special education and my son, Andrew, is home from the Navy attending college to become a nurse.”

**P. Roger Ellis**, CE’71, was named dean of the School of Business and Entrepreneurship at Lindenwood University in St. Charles, Mo. “For those who remember the busloads of ladies coming from the women’s colleges for a party weekend, Lindenwood is no longer a small women’s college. We are now a co-ed university with more than 17,000 students.”

**Jeff Lueddecke**, AE’95, MS SysE’08, and his wife, Lisa, had a boy, Braeden Joseph, on July 6, 2011. He joins brothers Alex, 9, and Jared, 6. Grandfather is **Donald Lueddecke**, ChE’70, MS CE’81.

**Steve Malcolm**, CE’70, was elected to the boards of directors of ONEOK Inc. and ONEOK Partners. He retired as chair, president and CEO of Tulsa-based Williams.

**Jerry Maurseth**, CE’74, MS CE’76, and **Vicky (Dickerson) Maurseth**, CSci, MS EMgt’76, are the proud grandparents of five granddaughters and one grandson. “God has truly blessed us.”

**Tom Mittler**, CE’75: “I retired in May 2012 from Eastman Chemical Co. after 37 years of service. I stay busy helping my wife, Jan, playing with our eight grandchildren, and volunteering at church, St. Vincent de Paul charity, a local right-to-life group, Habitat for Humanity and Teen ACTS. I still live in Longview, Texas.”

**Earl J. Poe III**, CE’73, MS EMgt’76: “Sadly, I’ve had to close the 122-year-old family business. It does, however, give me more time for my three grandkids and mountain biking.”

**Ceasar J. Santucci Sr.**, CE’72: “After more than 46 years of service, I retired from the U.S. Corps of Engineers. It has been a rewarding and exciting career filled with many interesting programs.”

**John R. Schilling**, CE’73, MS CE’85: “I’ve been with Black & Veatch for 39 years in May.”

**Ronald E. Sherard Jr.**, CE’74: “I retired in March of 2012. I spent eight years in Maryland working on various transportation projects — the last being a \$550 million part of the \$2.2 billion electronic toll road. I am now enjoying the Kansas scenic beauty.”

**Robert L. Ward**, CE’71, MS CE’74, civil engineering professor at Ohio Northern University, received the 2011 Tau Beta Pi National Outstanding Advisor Award. He and his wife, Karen, celebrated 40 years of marriage on June 6. They have four children and six grandchildren.

**Mark E. Wavering**, CE’73, was hired as a senior project manager and transportation manager in the Phoenix office of Gannett Fleming, a global infrastructure firm.

## 1980s

**Mark A. Cook**, CE’83: “Jacobs promoted me to deputy construction director for engineering services in the southeastern U.S. (Florida and Georgia). My two kids are in college now at the University of North Florida and Florida Southern College. These modern dorms are so cushy — nothing like the old TKE house at Rolla.”

**Joe Feldmann**, CE’83, is now the highway department engineer for Franklin County in Missouri.

**Jeff Lueddecke**, AE’95, MS SysE’08, and his wife, Lisa, had a boy, Braeden Joseph, on July 6, 2011. He joins brothers Alex and Jared. Grandfather is **Donald Lueddecke**, ChE’70, MS CE’81.

**Jim Solari**, CE'80, became a grandfather to James L. Solari IV on Easter, April 8, 2012.

**Todd A. Welz**, CE'84: "Recently had my 20th anniversary with Jacobs. I am director of operations for the transportation group in St. Louis."

## 1990s

**Neil S. Brady**, CE'95, was named president-elect of the Missouri Society of Professional Engineers. He is president and engineering manager of Anderson Engineering Inc. in Springfield, Mo.

**H. Joseph Dickerson**, CE'97: "I returned to Sidock Group in 2009 and now also have a serious hobby training my bird dog."

**Tonya (Reuck) Lohman**, CE'97, is a professional engineer and works for Missouri Department of Transportation. She has three children with husband **Brian Lohman**, NDD'97, who earned his metallurgical engineering degree from Georgia Technical University in 2002.

**Matt H. McQuality**, GeoE'93, MS CE'96, was promoted to branch manager of Geotechnology Inc.'s Overland Park, Kan., office.

**Charles L. Myers**, CE'93, EMgt'94, was promoted from assistant director of environmental engineering to director of energy services at RETTEW, an *Engineering News-Record* top 500 design firm.

**Steve Starwalt**, CE'92, married **Jana (Neal) Schaefer**, NDD, on Oct. 11, 2012, in Indianapolis.

**David B. Tag**, CE'98: "I accepted a position as senior project manager with Emery Sapp & Sons Inc. in Springfield, Mo. Previously, I worked 10 years for

APAC-Missouri Inc. as structures area manager and five years for MoDOT as a construction inspector. My wife, Kara, and I live in Fair Grove, Mo., and have three children, Jackson, 8, Ashlyn, 5, and Isaac, 3."

## 2000s

**Chris Bilderback**, CSci'02, and **Rebecca (Galbreath) Bilderback**, CE'02, had twin girls, Rose Mary and Rachel Lynn, on Feb. 22, 2012.

**Josh Brown**, ArchE'06, and **Holly (Dameron) Brown**, Math'06, had a girl, Brooklyn Grace, on March 20, 2012. She joins brother Conner, 2.

**Evelyn (Barnes) Chamberlain**, ChE, MS EnvE'05, PhD CE'08: "We live contentedly outside of Indianapolis on a small farm. The boys are enjoying our current adventure, sheep, with typical boyhood aplomb."

**Adam Chamberlain**, CerE'02, PhD CerE'06, and **Evelyn (Barnes) Chamberlain**, ChE'02, MS EnvE'05, PhD CE'08, had a boy, Ian Henry, on Sept. 1, 2011. He joins brother Owen Lee, 2.

**Matthew Flint**, CE'07, and his wife, Lindsay, had their second son, Colton Emmett, on May 4, 2012.

**Angela (Adams) Franklin**, CE'07, was promoted to senior engineer with Crawford, Murphy & Tilly Inc. following her recent registration as a licensed professional engineer in Missouri.

**Steve Jackson**, CE'07, Econ, earned his professional engineering license certificate for Missouri. He is technical manager for NB West Contracting Co.

*(continued on the next page)*



**John Keeven**, CE'05, and his wife, Katie, had a boy, William, on May 6, 2012. He joins brother Landon.

**Elliott Giles**, MinE'09, and **Mandi Mueller**, CE'09, were married on Oct. 1, 2011, at the Grand Basin in Forest Park in St. Louis. The couple lives in Dallas.

**Stephen T. Peterson**, MS CE'02: "My wife, Julie, and Ella, 5, Eliza, 3, and I are all doing well in West End, N.C."

**Michelle Puzach**, ArchE'10, is working on a graduate certificate through S&T.

**Dylan Ream**, ArchE'09, CE'09, joined ARCO Construction Co. Inc. as a project manager.

**Sandra (Terry) Rotty**, ArchE'04, MS EMgt'08, was promoted to project manager at Tarlton Corp. in St. Louis.

**Tim Schmidt**, CE'01, and **Ann (Papke) Schmidt**, EMgt'00, had a girl, Emma Josephine, on July 6, 2012. She joins sisters Abigail, 6, and Megan, 3.

**Joel Schrenk**, CE'08, ArchE'08, is a construction engineer with ExxonMobil. He and **Holly Schultz**, EMgt'07, were married on Oct. 28.

**Brian Wood**, MS CE'08, earned a structural engineer designation that will allow him to obtain licensure. He works at Barge, Waggoner, Sumner and Cannon Inc. in Nashville, Tenn.

**Justin Wylam**, EE'03, and **Kira (Bluebaum) Wylam**, CE'06, had a girl, Anna Elizabeth, on Aug. 30, 2012.

# Distance Education

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**Gary Atkins**

McCarthy Building Companies, Inc.

*"I like that I can continue working in my profession (as a construction manager) while taking classes and completing my certificate program. It also has helped me decide whether or not I will continue working toward a master's degree."*

## 1940s

**George E. Henry**, CE'47, (Feb. 10, 2012)

**Frank Kenneth Kyle**, CE'41,  
(Feb. 10, 2012)

**J. Walter Liddell**, CE'47, was on the Miner track team and retired from Wang Laboratories Inc. He was an accomplished nature photographer and enjoyed traveling the world with his wife. (Oct. 19, 2011)

**Peter O. Redel**, CE'55, (Nov. 11, 2011)

**Theodore J. "Ted" Reeves**, CE'50,  
(Oct. 26, 2011)

**Warren D. Roach**, CE'51,  
(March 23, 2012)

**Ralph R. Roesler**, CE, MS EMgt'71  
(Oct. 13, 2012)

**Marion C. Skouby**, CE'58, (May 30, 2012)

## 1950s

**James E. "Jim" Ballew**, CE'51,  
(July 24, 2012)

**David J. Davis**, CE'55, was a member of Sigma Phi Epsilon fraternity and served in the Korean War. He retired in 1993 as city engineer for O'Fallon, Ill.  
(April 11, 2012)

**Stanley Dolecki**, CE'50, was a member of Pi Kappa Alpha fraternity and the track team. He retired from Black & Veatch as a project manager and director of new business development and was past president of the Missouri Society of Professional Engineers. (Oct. 7, 2012)

**Garland C. "Bud" Friederich**, CE'55,  
(March 22, 2012)

**Chester L. Hager**, CE'58, worked for the Illinois Department of Transportation his entire career; retiring in 1991.  
(May 14, 2012)

**Ronald A. Hoffmann**, CE'52,  
(May 16, 2011)

**William P. Hughes**, CE'50, (Oct. 5, 2011)

## 1960s

**C. Parker "Punch" Bennett**, CE'69, was on the Miner football team and served in the U.S. Army. He retired in 1989 as a maintenance superintendent after 33 years with the Missouri Department of Transportation in Sikeston, Mo.

**Matthew J. Burkart**, CE'64,  
(Sept. 18, 2012)

**Peter H.F. Malsch**, CE'62, was a member of Theta Xi fraternity and served in the U.S. Army as an engineer. He retired from Weyerhaeuser Co. after 34 years. He served on the Miner Alumni Association board and was active in his section. He was a frequent volunteer; most recently as district coordinator and instructor for the AARP Senior Driver Safety Program. (Jan. 29, 2012)

**William C. "Bill" Moreland**, CE'65,  
(July 29, 2012)

**William R. Niemeier**, CE'64,  
(Oct. 28, 2011)

*(continued on the next page)*

**Dr. Edward Merle Raney**, CE'64, MS EMch'66, PhD EMgt'90, began his career at a construction company in Orville, Calif. in 1977. He went to work for International TechneGroup Inc. and Structural Dynamic Research Corp. After completing his Ph.D., Dr. Raney was a lecturer in civil engineering at S&T, retiring in 2008. He was a member of Tau Beta Pi, Chi Epsilon and California Professional Engineers. (Feb. 13, 2012)

**Gene C. Rizer**, CE'60, earned an electrical engineering degree and a master's degree in civil engineering from Purdue University. He received medals for two tours in Vietnam and retired as a colonel in the U.S. Army after 27 years. He taught high school math for 10 years. He loved to travel, was active in his church, and volunteered in homeless shelters and several organizations. (March 4, 2012)

## 1970s

**Stanley E. Grabski**, CE'71, was a member of Pi Kappa Alpha fraternity. He retired as district engineer after 36 years with the Illinois Department of Transportation. (Sept. 6, 2012)

**Daniel J. Llewellyn**, CE'71, (April 14, 2012)

**William O. Player**, MS CE'70, (March 30, 2012)

**Daniel J. Spellman**, CE'70, (Nov. 9, 2011)

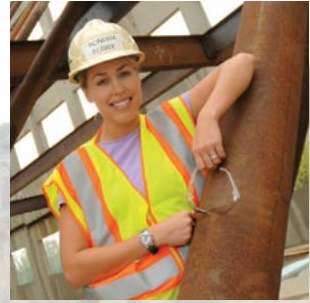
**Lawrence D. Wolf**, CE'79, MS CE'04 (Oct. 16, 2011)

## 2000s

**Matthew John Pooker**, CE'05, (May 7, 2012)



# VISION 2020



## ***Preparing our graduates to solve the technical and engineering challenges of a global society.***

Engineers of the 21st century must be skilled in their specialty areas, but they also must be leaders, collaborators and communicators with a bold and creative mindset. In a world that is rapidly changing and increasingly interdisciplinary, these skills will make our graduates even more valued as they face engineering challenges on “streets” around the world, whether those streets are in the Bolivian Andes, or in modern Dubai, or maybe even on the moon or Mars.

The Civil, Architectural, and Environmental Engineering Department has embraced a new and exciting vision and developed a strategic plan focused on that future. The plan includes program changes, expanded experiential learning opportunities, improvements in laboratory facilities, and new scholarship and fellowship programs.

To meet and exemplify the ideals at the core of our mission, our strategic plan will advance the department in the following key areas:

- **Preparing graduates to solve technical and engineering challenges around the world for generations to come.**
- **Enhancing our national reputation among employers, future students and peer institutions so that we are known as “a destination of choice.”**
- **Engaging in multi-disciplinary scholarly activities that foster knowledge creation and technology transfer in targeted areas.**

Achieving these goals will be integral to our department’s growth as a destination of choice for top students, a leader in preparing engineers for the global workplace, and a nationally recognized research institute.

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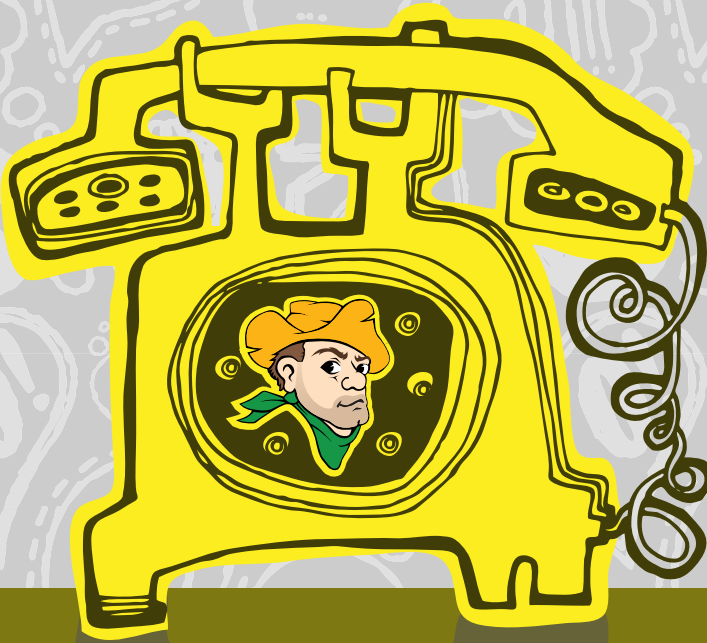
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