



Missouri S&T Magazine Spring 2013

Missouri S&T Marketing and Communications Department

Miner Alumni Association

Follow this and additional works at: <https://scholarsmine.mst.edu/alumni-magazine>

Recommended Citation

Missouri S&T Marketing and Communications Department and Miner Alumni Association, "Missouri S&T Magazine Spring 2013" (2013). *Missouri S&T Magazine*. 20.
<https://scholarsmine.mst.edu/alumni-magazine/20>

This Magazine is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in Missouri S&T Magazine by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact scholarsmine@mst.edu.

SPRING 2013 VOL. 87 NO. 1

MISSOURI S&T MAGAZINE



THE NEXT GENERATION OF MINERS

Creating a better tomorrow.
That has been a theme for Rolla
graduates for more than 140 years.

p. 20

8

HISTORIC SEASON
ON THE GRIDIRON

9

PREVENTING
CATARACTS

33

UPCOMING
SECTION EVENTS

While you're out, would you pick up a few things for us?



SHOPPING LIST:

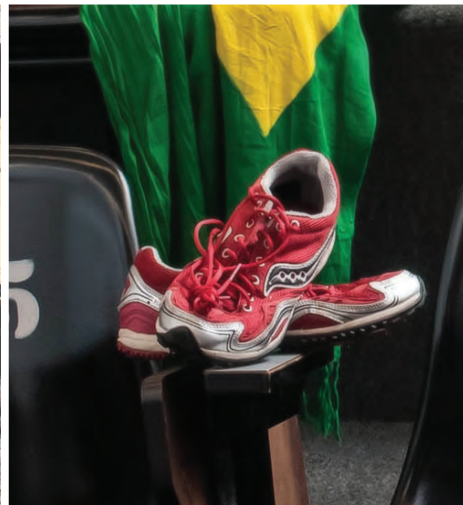
- KMST natural gas-powered generator (to use during a power outage) \$25K
- 3 Kegeators for the Hasselmann Alumni House \$3,500/ each
- 15 ROTC Cannon Crew jackets \$35/ each
- Industrial washing machine for athletics uniforms \$8,000
- Lodging for a Solar House Team member during the Solar Decathlon near Irvine, Calif., in October 2013 \$750
- Clear raw glass for S&T's Hot Glass Shop for one semester \$1,800
- 2 tubas for band program \$8,000/ each
- 1 Etiquette Dinner \$3,000

THANK YOU!!

Make a gift that can make a difference.

give.mst.edu

Your gift to Missouri S&T goes beyond scholarships and capital projects. It provides the nuts and bolts (and solar panels and microscopes) that Miners use every day.



◀ ON THE COVER

Gone are the days of slide rules on the Missouri S&T campus. Today, students use a wide variety of tools to help them navigate math, physics and engineering classes (to name a few).

IN YOUR WORDS

Q & A and Tweets

Did you ever pull a college prank?

4

AROUND THE PUCK

Matt O'Keefe:

memorable mentor

Conversational and quirky, his influence is undeniable.

6

How many engineers does it take to change an LED lightbulb?

Measuring the intensity of LED traffic lights.

7

40 years of public radio history

KMST has garnered a worldwide following.

11

Benton mural comes alive

Jim Bogan brings historic art to life in video.

14

New approach in detecting prostate cancer

Casey Burton's new method is less costly and more accurate.

16

Breaking the mold

Diane Strong encompasses the S&T spirit.

19

FEATURE

The next generation of Miners

Today's Miners continue the tradition of excellence.

20

BEYOND THE PUCK

Section events

List of upcoming events.

33

Class notes

Find out what your former classmates are up to.

34

Memorials

We remember our classmates and friends.

44

Donors

Margaret Olcott and family.

48

BRIEFLY { BY THE NUMBERS }

1,825

New Missouri S&T graduates receiving degrees during calendar year 2012.

Missouri S&T's rank among the Best Values in Public Colleges for out-of-state students by *Kiplinger's Personal Finance*. S&T ranks 100th for in-state students.

96

Missouri S&T's in-state affordability ranking in a *Newsweek* magazine listing of the 25 Most Affordable Schools. Among public institutions, S&T was ranked third most affordable for in-state students.

Missouri S&T's rank in *U.S. News & World Report's* "Great Schools at Great Prices" listing. Among public institutions, S&T ranked 7th.

24

S&T's out-of-state ranking in *Newsweek* magazine's listing of the 25 Most Affordable Schools. Among public institutions, S&T ranked No. 1 for out-of-state students.

7,647

Students enrolled at Missouri S&T during the fall 2012 semester.

8

MISSOURI
S&T
MAGAZINE

Missouri S&T Magazine is written, edited and designed by the staff of the Missouri S&T Communications Department and the Miner Alumni Association.

CHANCELLOR

Cheryl B. Schrader

VICE CHANCELLOR FOR UNIVERSITY ADVANCEMENT

Joan Nesbitt

MINER ALUMNI ASSOCIATION PRESIDENT

John Eash, AE'79, MS EMgt'90

EDITORS

Megan Kean-O'Brien, MS TComm '12 (Design & Production)

Darlene Ramsay, MetE'84 (Alumni)

Mary Helen Stoltz, Engl'95 (News & Features)

ASSOCIATE NEWS EDITORS

Andrew Careaga

Linda Fulps

Mindy Limback

Peter Ehrhard

John Kean

Luke Rinne

ASSOCIATE ALUMNI EDITORS

Linda Fulps

Katie Machovsky

Katie Jackson

Nancy Zamazanuk

ASSOCIATE DESIGN AND PRODUCTION EDITORS

Brandan Deason

Jake Otto

STAFF PHOTOGRAPHER

B.A. Rupert

Missouri S&T Magazine (USPS 323-500) (ISSN 1084-6948) is issued three times per year (March, July, November) in the interest of the graduates and former students of the Missouri School of Mines and Metallurgy, the University of Missouri-Rolla and Missouri University of Science and Technology. Missouri S&T Magazine is published by the Miner Alumni Association, Missouri S&T, 1200 N. Pine St., Rolla, MO 65409-0650. Periodicals postage paid at Rolla, Mo., and additional mailing offices.

Missouri S&T Magazine is printed by R.R. Donnelley, Liberty, Mo. Covers are printed on 114 lb. - 7 pt. Sterling White; interior pages are printed on 60 lb. Sterling White.

Missouri S&T Magazine is printed using soy-based ink.

POSTMASTER: Send address changes to Missouri S&T Magazine, Missouri S&T, 1200 N. Pine St., Rolla, MO 65409-0650.

Send letters to:

Darlene Ramsay
Miner Alumni Association
1200 N. Pine St.
Rolla, MO 65409-0650
Phone: 800-JOMINER
Fax: 573-341-4706
Email: alumni@mst.edu

News & features:

Phone: 573-341-4328
Fax: 573-341-6157
Email: news@mst.edu

magazine.mst.edu

Dear Fellow Alumni:

Fans of *The Simpsons* may have noticed some familiar clothing on Lisa during the episode that aired on Nov. 11, 2012. In that episode, Bart Simpson's more intellectual younger sister wore a "University of Missouri at Rolla" shirt while playing online poker with the college savings her dad, Homer, had socked away. It made us wonder what kind of a student Lisa would be if she attended Missouri S&T.

Wikipedia describes the middle Simpson child as "highly intelligent" (with an IQ of 159), spiritual, idealistic and "notably more concerned with world affairs than her life in Springfield," her mythical hometown.

Armed with that information, our admissions staff, many of whom are fans of the show, predicted Lisa's career as a Miner.

Major: environmental engineering and psychology

Activities: jazz band, theater, research, film series, athletics

Student organizations: Women in Engineering, French Club, Engineers Without Borders

Of course, Lisa Simpson is just a fictional character, but Missouri S&T has thousands of other real-life students



with fascinating real-life stories. Each one is different. While all of them strive to uphold the Miner tradition of excellence, and many exceed that high standard, there is no such thing as a stereotypical S&T student.

Miners excel in a broad spectrum of activities and interests. Some are athletes. Others are members of student design teams. Some are involved in research that can change the lives of people around the world. Others focus on serving their local communities. Many combine these activities and more.

In this issue, we'll introduce you to a few of today's real-life students. Keep an eye on them. They, like so many of their fellow Miners, are going places.

Megan Kean-O'Brien
MS TComm'12
design & production editor

EDITOR'S
TOP FIVE
PICKS

- 1 Meet the new faces of your Miner Alumni Association. New president, **John Eash**, AE'79, MS EMgt'90, is featured on page 43. New alumni office staff members are featured on page 13.
- 2 Miner Athletics had plenty to cheer about during the fall campaign. Check out the prestigious honor awarded to Lady Miner volleyball player, **Jenny Costello**, on page 10.
- 3 The S&T Mine Rescue Team struck gold in the Mine Rescue Competition — the first time since 1988. See page 17 for more details.
- 4 Senior **Casey Burton** is helping find an easier, more accurate and more cost-effective method of prostate cancer detection. Learn more on page 16.
- 5 Altoids have long been known for their "curiously strong flavor." But did you know the box Altoids come in also has other uses? Find out what a couple of your fellow alumni have discovered on page 36.

CORRECTIONS

In the Fall/Winter 2012 issue, we listed the incorrect hometown for **Ranney McDonough**, CE'66, president of McDonough Engineering Corp., who was inducted into the Missouri S&T Academy of Civil Engineers in April 2012. He is from Houston, Texas.

Steve Puzach, CE'09, was listed incorrectly on page 31 of the Fall/Winter 2012 issue. He was a member of the first-place B Flight team in the St. Louis Section golf tournament, held June 23.



Did you ever pull a prank in college?

Were hard-working, nose-to-the-grindstone Missouri S&T alumni all work and no play during college? We don't think so. We've heard tales of students leading a calf to the third floor of the Rolla Building, constructing a brick wall across Pine Street and burning an outhouse on campus. We wanted to hear more of those stories, so we asked.



Yeah, they've tried to get me to incriminate myself before. It's not going to happen.

Jeff Spencer, CSci'93, Rolla, Mo.

To this day, I will testify that I know nothing about who disabled the elevators in TJ Hall. Move along folks, nothing to see here.

Patrick Williams, CE'11, Helena, Ark.

There might be stickers on hard-to-reach places around campus. Some are in plain sight and were still there as of February 2012 when I was last there. Some are probably in official press pictures. Good luck finding them, and to whoever put them there.

Scott Frazier, EE'09, Rochester Hills, Mich.

The final in the 1997 Intro to Programming C++ involved debugging an application. Simple things like finding compile time errors and logic errors and fixing them. The lab probably had about 40 students in it. One student had created a program to play "Mary Had A Little Lamb" on delay. You loaded it off of your 3.5-inch floppy disk, ran the program (which loaded it into memory), popped out the floppy and were out of the room before it went off. He passed out several copies the week

before the final. My guess is almost half of the class had a copy of this program. I stayed until almost the end of the final, sitting in the back row listening as more and more PCs played out the song in all its 8-bit glory.

Nate Taylor, EE'00, Omaha

We repeatedly painted the Mu back on the rock at the Sigma Chi annex after they had the big "Burning the Mu" party. The Mu was dropped after getting their charter. We even went in camouflage with war paint. They tried to catch us, but it never worked. It was great fun. I was even dating a Sigma Chi and they were clueless. The sorority girls were not on the suspect list.

Cheri Mohan-Schmitt, ME'87, St. Louis

It is a tradition for the pledges of Sigma Phi Epsilon to drag the large rock in their front yard to another fraternity so their members would have to drag it back. In 1994, the students at the fraternity where the rock ended up rented a jack hammer and made the rock easier to carry back to Sig Ep. I'm not Greek, but I had some great friends in the Sig Ep house. When I asked them if they were going to replace it, of course their answer was "yes." Their minds going wild with the size of rock they wanted to get. But then after a bit of estimation of what they could actually haul, they realized their goal was out of reach because no one in the house had a large enough truck to move a three-ton granite boulder. I said, "You find the rock, I'll haul it." I worked for Poe's Gas, which had a truck equipped with a hydraulic boom for hauling propane tanks. One of the guys got permission to take a large red granite boulder

(continued on page 5)

Watch for the next question in your Miner Alumni Association eNewsletter.

Email your answers to alumni@mst.edu, or via Facebook or Twitter, by June 28, 2013.

(Q&A continued from page 4)

from the Experimental Mine. I secured the truck from Gordon Poe, who had only one request, "Just don't flip my truck over." I delivered the rock the Saturday before finals week during the fraternity's traditional senior round of golf. As soon as the rock was on the ground, someone shouted, "Let's move it!" Those of us that loaded the rock knew this was nearly impossible, but we sat back and watched them try. The rock was sitting on edge and after a few minutes of grunting, it did roll over to a larger flat with a loud thud. I don't think that rock moved for several semesters because of its extreme weight.

Another time, during the spring of 1997, the old IBM system in the computer lab was going away and all the 1-inch reel-to-reel tapes would all be obsolete. **Dax Sparks**, AE'96, ME'96, and I were working in the operations and equipment room on weekend shifts. We stockpiled about 80 of those reels and then unwound them and stuffed the mess into **Charlie Irwin's** office one Sunday night. (Irwin is a retired supervisor of computing and information services, now known as IT.) His office was on the edge of the room and the walls were all glass. The tape filled the room to about chest height with his desk, chair and computers still inside.

Brian Call, ME'97, MS EMch'99, Dunlap, Ill.

To stay connected to your alma mater through these online social media resources, **search MissouriSandT** or follow the link through **mst.edu**.



Delicious



Facebook



Flickr



Twitter



YouTube



Subscribe



@Kickapoo Soccer

Kickapoo High School soccer program
(Springfield, Mo.)

Congratulations go to 2009 graduate Caleb Collier on his Academic All-American award at Missouri S&T!

@frankiesmiff

Frank Smith, ArchE'11, CE'11, Blacksburg, Va.,
in response to "#STEM Students Must Be Taught to Fail. What do you think?"

This is why (physics) professor (Ron) Bieniek is one of my favorite professors, but only after the fact.

@DamonGuthrie

Damon Guthrie, junior in engineering management
from St. Louis

@SandTChancellor I'm thankful for the support of a great family & the many minority leaders before me who've inspired my desire in #STEM!

@kaleykmac

Kaley McLain, senior in ceramic engineering from Liberty, Mo.

@SandTChancellor I'm thankful for the many opportunities @MissouriSandT has given me and a degree that made it easy to find a job!

@enuttall

Erica Nuttall, sophomore in business and management systems
from Lake Winnebago, Mo.

Random awesome fact: The creator of twitter Jack Dorsey briefly attended Missouri S&T #RollaHolla

@gleek_wisz

Sarah Wiszkon, GeoE'00, St. Louis

What a great weekend @MissouriSandT — 10-1 football team & a nod on the Simpsons. So proud to be a Miner alumni!

@autryp

P.C. Autry, MS IST'10

Anyone notice Lisa Simpson's #UMR shirt? #GoMiners

@Joseph_D_Hyman

Joseph Hyman, senior in technical communication
from Los Angeles, and a wide receiver for the Miners

10-1 season, didn't make the playoffs but it was a record setting season and a great way to end my college career #gominers #minerfootball



MATT O'KEEFE: MEMORABLE MENTOR

Walk into Straumanis-James Hall and the building's relaxed atmosphere may be the first thing you notice. The building is home to the Materials Research Center and its director, **Matt O'Keefe**, MetE'85.

O'Keefe, who is known for his friendliness and accessibility, will tell you he didn't set the building's tone — that he's just trying to maintain what **Bill James** (professor emeritus of chemistry and a namesake of the building) created when he started the MRC back in 1964. James, who turned 90 in September, still has an office down the hall from O'Keefe's.

But O'Keefe's influence is undeniable. He's been a popular professor at S&T since 1999, receiving several teaching

awards along the way. He has a genuine concern for his students' success, both in his department and in the Phi Kappa Theta fraternity, where he serves as faculty advisor.

Rick Szevery, MetE'02, a senior engineer with ArcelorMittal Burns Harbor, is grateful for O'Keefe's mentorship.

"Dr. O'Keefe's conversational teaching style and quirky sense of humor made his classes very enjoyable and memorable," Szevery says. "He organized the course information in a way that made it easier to comprehend than in my other courses. And he was always positive and helpful. I really valued his advice and our conversations."

O'Keefe was born and reared in Rolla, the son of the late **Thomas J. O'Keefe**, Curators' Professor emeritus of metallurgical engineering. The younger O'Keefe took graduate courses while working for AT&T Bell Laboratories in Allentown, Pa., and earned a Ph.D. from the University of Illinois at Urbana-Champaign while working for the Air Force Research Laboratory at Wright-Patterson Air Force Base in Ohio.

Although he's laid back, he's no pushover and is honest with students. "Students don't always appreciate or like what I have to say," he says. "But sometimes it's what they need to hear." ■

HOW MANY ENGINEERS DOES IT TAKE TO CHANGE AN LED BULB?

A group of S&T researchers led by Suzanna Long, assistant professor of engineering management and systems engineering, is working with the Missouri Department of Transportation to measure the intensity of LED traffic lights.

Light-emitting diodes or LEDs have replaced standard bulbs in many of the nation's traffic lights. Even though they're brighter than standard bulbs and have a longer life, knowing when to replace them is a guessing game, Long says.

While working with MoDOT on a data-driven replacement schedule for LEDs, her team created a laser-guided device to measure LED intensity from the side of the road at night instead of requiring technicians to physically check traffic lights using a bucket truck.

The project, named one of the 2012 "Sweet 16" High Value Research Projects by the American Association of State Highway and Transportation Officials, appeared in the *Engineering Management Journal's* special issue on transportation management last September.

Working with Long are **Mariesa Crow**, the Fred W. Finley Distinguished Professor of Electrical Engineering; **Abhijit Gosavi** and **Ruwen Qin**, assistant professors of engineering management and systems engineering; and **C.H. Wu**, professor of electrical and computer engineering. ■



Suzanna Long is helping MoDOT develop a schedule for replacing LED bulbs in the state's traffic signals.

SILVER STARS FOR S&T

S&T's dedication to environmental sustainability and stewardship paid off this fall with a "silver" rating in the Sustainability Tracking, Assessment and Rating System (STARS). S&T is one of 103 universities in the nation to achieve the silver STARS designation.

STARS is a national program developed by the Association for the Advancement of Sustainability in Higher Education to help colleges and universities measure their environmental and other sustainability efforts. Participants report achievements in the areas of education and research, operations, and planning administration and engagement.

STARS also offers bronze, gold and platinum designations. Only 37 universities have achieved a gold rating. No institution has attained a platinum rating.

S&T OFFERS NEW FLEXIBLE DEGREE

In January, S&T began offering a new bachelor of arts degree in multidisciplinary studies. Designed for flexibility, the program lets students customize their education while taking advantage of the university's emphasis on engineering, science, technology and liberal arts.

Through Missouri S&T's newest degree program, a student interested in ecology could combine coursework in geology, biology and mining engineering. A student interested in an education career could combine business and economics with teacher certification.

The program uses only existing faculty and funding and is expected to attract 32 full-time students and seven part-time students within five years.

HISTORIC SEASON ON THE GRIDIRON

The first season for football in the Great Lakes Valley Conference was a historic one for the Miners. S&T finished with a 10-1 record to tie the university's single-season record for victories. Even though the Miners weren't invited to the NCAA Division II playoffs, the team was ranked 24th in the final poll conducted by the American Football Coaches Association. It was the first time since 1984 the program was ranked.

"I was very pleased with the way things came together this year," says Miner head coach **David Brown**, who stepped down in mid-February to become an assistant coach at Fresno State University. "We learned how to compete and finish. It takes a lot just to have a winning season, so you can only imagine what has to happen in order to win 10 games. It was a total team effort.

"Our senior class played a huge part in placing S&T football on the national stage," Brown says. "We definitely have a solid foundation to build on for years to come."





Nuran Ercal (left) recently received a grant to fund the use of an antioxidant to prevent degenerative eye conditions. Pictured with Ercal is Sri Krishna Yasaswi Maddirala, a Ph.D. student in chemistry.

PREVENTING CATARACTS

Using eye drops prepared with the antioxidant N-acetylcysteine amide (NACA), **Nuran Ercal** is conducting research that could prevent or cure cataracts, macular degeneration and other degenerative eye disorders.

Ercal, the **Richard K. Vitek** (Chem'58)/Foundation for Chemical Research Endowed Chair in Biochemistry who is also an M.D., says NACA is better than the experimental treatment N-acetylcysteine because it crosses cell membranes easier and can be used in lower doses.

"NACA eye drops could represent an alternative to costly surgery, while greatly improving the quality of life for those afflicted," says Ercal, who has been testing NACA on HIV-related problems, lead poisoning and other toxicities for 10 years. About four years ago she began testing it on eye disorders.

Ercal received a three-year, \$378,000 research grant from the National Eye Institute of the National Institutes of Health using preliminary data based on research by her former Ph.D. student, **Joshua Carey**, Chem'07, Phys'07, PhD Chem'12.

Carey's dissertation showed how NACA could slow cataract growth on rats that had been given a solution that causes cataracts to form.

"The NACA solution prevented cataracts from forming," says Ercal. "Our research will build on Josh's research, to see if NACA can actually reverse the degeneration as well." ■

20.5 million

Americans older than 40 years have a cataract in either eye



Women are

40%

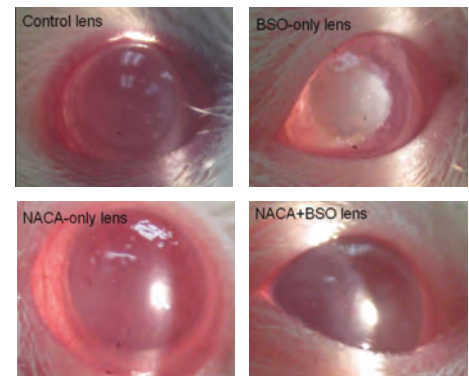
more likely to develop cataracts than men



By 2020, the total number of persons who have cataracts is estimated to rise to

30.1 million

(medicalnewstoday.com)



Top left (control lens): The lenses in this group were found to contain no detectable cataracts. Top right (lens treated with BSO, a cataract-inducing solution): All lenses in this group developed distinct cataracts, with most being nearly completely opaque. Bottom left (lens treated with NACA only): Results were similar to the control group with no detectable signs of cataract. Bottom right (BSO-treated lens also treated with NACA): The lens depicted above has a Grade 1 opacity, which was evident by the amount of scattering light.

OFFICIAL BUSINESS

Missouri S&T's business and information technology degree programs have earned initial accreditation by the board of directors of AACSB International — the Association to Advance Collegiate Schools of Business. AACSB is the longest-serving global accrediting body for business and accounting programs.

To be accredited, S&T's programs met 21 quality standards, including quality of faculty, resource management, and interactions of faculty and students. Fewer than 5 percent of institutions worldwide are AACSB accredited. S&T's program started in fall 2001.

S&T TO HELP TRAIN SAUDI MINERS

Missouri S&T received a \$24 million grant from the Saudi Arabian government to help train and educate Saudi mining professionals.

S&T will partner with the Technical and Vocational Training Corp., a Saudi government entity, and the Saudi Arabian Mining Co., Ma'aden, to establish Saudi Mining Polytechnic. With S&T leading the way, SMP plans to educate 200 professionals annually in mineral processing and surface and underground mining.

Canadian Petroleum Services, Caterpillar Global Mining, The Doe Run Co., Immersive Technologies, Orica Inc. and P&H Mining are also partners in the venture.

LADY MINER VOLLEYBALL PLAYER NAMED ACADEMIC ALL-AMERICAN OF THE YEAR

Jennifer Costello, a senior in chemical engineering from St. Louis, is the Capital One Academic All-America of the Year award winner for Division II volleyball as selected by the College Sports Information Directors of America.

Costello is the third player and first female in school history to earn the award. Costello was also named Great Lakes Valley Conference Scholar-Athlete of the Year for volleyball. She is the first S&T volleyball player to earn the title and the fifth in school history.

Costello also earned first team honors last season. She has been named to the All-Great Lakes Valley Conference first team twice and has been named an Academic All-GLVC selection three times. She has won the M-Club Scholar Athlete Award for the last three years.

This past season Costello helped lead the Miners to their second-straight GLVC West Division title and to the semifinals of the conference tournament. She finished her career with 4,361 set assists, 923 digs, 444.5 points scored, 270 kills, 182 total blocks and 80 service aces. ■



UNWRAPPING MUMMY FASCINATION

Public “unwrappings” of real mummified human remains — performed by both showmen and scientists as early as the 1600s — may have objectified exotic Egyptian artifacts. But they were also scientific investigations that revealed medical and historical information about ancient life, says **Kathleen Sheppard**, assistant professor of history and political science.

Sheppard's paper on 20th century Egyptologist Margaret Murray, the first woman to publicly unwrap a mummy, was published in the December issue of the journal *Science in Context*. She says Murray's work is “poised between spectacle and science, drawing morbid public interest while also producing ground-breaking scientific work that continues to this day. These types of spectacles were highly engaging shows in which people were, to a certain degree, educated about different aspects of science both by showmen and scientists.”

Many Egyptologists focused on either “Egyptomania,” the fascination with all things Egypt, or “Egyptology,” the scientific study of Egyptian life, Sheppard says. But Murray combined the two, involving the public in scientific inquiry while at the same time correcting popular misconceptions.

“Murray tried to get the public to see that mummies weren't magical, they were just preserved human remains to be studied and learned from,” Sheppard says. “In other words, rather than trying to separate the 'mania' from the 'ology,' she wanted to bring reason and understanding to the mania.” ■



40 YEARS OF PUBLIC RADIO HISTORY

Wayne Bledsoe, longtime host of “Bluegrass for a Saturday Night” and general manager of KMST, is helping the station celebrate 40 years on the air waves.

On Aug. 1, 1973, “Bluegrass for a Saturday Night” introduced area radio listeners to what would become an institution in public radio. Since then, KMST has broadcast an eclectic mix of music and NPR news and garnered a worldwide following.

Known then as KUMR, the station was on the air as early as 1963 as KMSM. At that time it was affiliated with the campus’ student radio station. When National Public Radio was formed in 1970, the University of Missouri System created radio stations at each of its four campuses.

The first locally produced show KMST aired, “Bluegrass for a Saturday Night,” was born of necessity, says General Manager **Wayne Bledsoe**.

“Bluegrass was virtually the only form of music we had enough LPs of to run an

hour-long show,” he says. Those LPs — which will soon become history thanks to digital music broadcasts — were donated from KMST’s sister station KBIA in Columbia.

Bledsoe joined the S&T faculty as an assistant professor of history and political science in 1968 and retired as professor and chair of the department in 2002. But he has been around KMST from the start, first as a volunteer, then as a contributing writer to the station’s program guide. In 1979 he took over the reins of the station’s flagship bluegrass program.

When the university announced plans to change its name to Missouri S&T in 2007, a small California radio station called KMST was in the process of going out of business.

“We timed it just right,” Bledsoe says. The FCC approved the transfer of the KMST call letters on July 16, 2007, making the radio station the first official harbinger of the name change.

KMST broadcasts at 88.5 FM in Rolla, Mo., and 96.3 FM in Lebanon, Mo., and livestreams its programming at kmst.org. Thanks to the Internet, KMST has contributing members in 47 states and 41 countries. ■

PROFESSIONAL DEGREES

Missouri S&T awarded six honorary professional degrees during commencement ceremonies in December. The degrees recognize the following graduates for professional achievement:

- **C. Dennis Croessmann**, NucE'81, of Edgewood, N.M., chief of staff for the chief technology officer at Sandia National Laboratories
- **Thomas M. DeGonia II**, Hist'93, of Olney, Md., a state and federal court litigator
- **Dale W. Leidy Sr.**, ME'61, of Moreland, Ga., retired technical director at Owens-Illinois Inc.
- **Robert E. Low**, of Springfield, Mo., president of Prime Inc.
- **Jeffrey W. Sheets**, ChE'80, of Houston, vice president of finance and chief financial officer for ConocoPhillips
- **Bryan A. Stirrat**, CE'67, of Diamond Bar, Calif., president of Tetra Tech – BAS.



700 NEW MINER ALUMNI

More than 700 degrees were awarded at commencement ceremonies in December. Speaker **Roger Truitt**, ChE'71, discussed some of the changes he's witnessed since he graduated 41 years earlier. He also gave the graduates five pieces of advice — to do their job well and market what they do, to always do the right thing, to question the validity of the questions they're asked, to give back to Missouri S&T and to have fun in life.

"Your education is just beginning and will last your lifetime," said Truitt, who received an honorary doctorate in engineering during the ceremony. "I believe you will see tremendous change in that lifetime." Truitt is the retired senior vice president of ARCO and retired president of ARCO Products Co. He lives in Paducah, Ky. ■

CLASS OF '63 TO RETURN IN MAY

The Class of 1963 will celebrate its 50th anniversary at the Golden Alumni Reunion May 20–21 at Missouri S&T and the Comfort Suites in Rolla.

In addition to reconnecting with each other, alumni will tour their departments and learn more about what is happening on campus today. The Miner Alumni Association will host the alumni and present programs on the association, world events 50 years ago and MSM in 1963. The highlight of the event is a recognition ceremony, where class members receive their 50-year pins and certificates.

If you are a member of the Class of 1963 and have not received your invitation, or are from another class but would prefer to celebrate your Golden Alumni Reunion with the class of 1963, please contact the alumni office at alumni@mst.edu or call 800-JOMINER for more information. ■

NEW FACES ON ALUMNI STAFF



New Miner Alumni Association staff members Gillian Masters, Darlene Ramsay and Katie Jackson.

There are some new faces in the Miner Alumni Association office. Here's your chance to get to know them.

Administrative assistant **Gillian Masters** is the woman behind the cheerful voice that answers the main phone line. Masters came to campus last fall from Woodland Park, Colo., where she was office manager for a home health care company.

Darlene Ramsay, MetE'84, is no stranger to most of you. The former Miner Alumni Association president is now the executive director of alumni relations and advancement services. She oversees the operations of the Miner Alumni Association and the university advancement research, annual giving, and record-keeping services.

Katie Jackson joined the alumni office on Jan. 7 as assistant director. A member of the S&T staff since 2009, Jackson was a student program administrator in student affairs. She holds a bachelor of arts degree in psychology and religion from Concordia College and a master of education degree from the University of Southern Mississippi. She is working toward a doctorate of education in educational leadership and policy analysis from the University of Missouri-Columbia. ■

BETTER THAN HARVARD

Missouri S&T grads command higher starting salaries on average than Harvard grads.

In September, ABC News asked PayScale for a list of colleges and universities whose graduates earn higher salaries than Harvard graduates right out of college. There were 12 of them.

That data, based on 2010 earnings, showed that Missouri S&T grads earn an average starting salary of \$58,600, while Harvard grads earn an average of \$54,100 in their first jobs. That's a pretty good return on investment considering annual tuition is \$40,866 at Harvard and only \$9,350 (\$32,666 for out-of-state students) at S&T. ■

SAVE THE DATE: HOMECOMING 2013

Make plans now to come to Rolla for Homecoming 2013, to be held Oct. 18–19. Watch for more details in the Summer issue of *Missouri S&T Magazine*.

105TH BEST EVER

The Miner Alumni Association hosted its annual breakfast before the St. Pat's Parade on Saturday, March 16, with coffee, juice, and cinnamon rolls, along with Mimosas and Bloody Marys. After the parade, alumni and friends celebrated with dollar beer and free hot dogs.

Watch for pictures in the Summer issue of *Missouri S&T Magazine*. Or go online to bestever.mst.edu to see how S&T has celebrated for 105 years.

GRAD FINALE MOVES TO THE GROTTO

Whether it was called the Cavern, Brewster's, the Mine Shaft or Hiram and Mortimer's, the Grotto has been a favorite hangout for generations of Miners. Last semester it was the home of the Grad Finale celebration.

On Dec. 6, the Miner Alumni Association hosted 54 graduating seniors at the Grotto for darts, air hockey, pool and pizza — and learning about the benefits that come with new membership in the alumni association.



BENTON MURAL COMES ALIVE

GO ONLINE

Both the film and guide are available online. Visit extension.missouri.edu/tombenton or scan the QR code below.



Muralist Thomas Hart Benton told the story of Missouri's history in tempera paint on the walls of the House Lounge in the Missouri state capitol building. Missouri S&T's **Jim Bogan** brought the mural, and its creator, to life in his video *Tom Benton's Missouri*. This past fall, the film was re-mastered in high definition and re-released to mark its 20th anniversary.

The film is available in a downloadable HD format with an educator's guide that includes lesson plans for fourth grade through college, background information on the mural, and music from the film.

"We hope that seeing the film in high definition will be like looking through the eyes of a sensitive and knowledgeable

spectator," says Bogan, Curators' Teaching Professor emeritus of art history and film.

Part of the restoration process involved refining the colors to make them truer to the original tempera of the mural. The film's soundtrack was also enhanced. It features narration by Benton himself and historian Bob Priddy, as well as historical ballads written and sung by Bob Dyer.

Luce Myers, a Missouri S&T art lecturer, worked with Kathleen Unrath, associate professor of art education at the University of Missouri-Columbia, and Abby Trescott, a Rock Bridge High School teacher from Columbia, Mo., to produce the Educator's Guide.

Collaborators on the film restoration include Michael Hicks, film and video producer with the UM Extension Cooperative Media Group; Frank Fillo, co-director of the original film; **Gerald "Jack" Brown**, a senior in civil engineering at Missouri S&T; and Jessica Hicks, an art education student at MU. ■

THE WAY WE WERE, YEAR BY YEAR

A slice of Missouri S&T history is now available online, thanks to the efforts of S&T's Curtis Laws Wilson Library staff.

The library staff created a digital version of every issue of Missouri S&T's yearbook, the *Rollamo*. The *Rollamo* yearbooks from 1907 to today are now archived together online at yearbooks.mst.edu. The year-long project required scanning and uploading roughly 7,000 pages from the 105 books.

The digital archives allows users to search through all editions, bookmark, share and download individual pages, says **Roger Weaver**, the institutional repository and digital collections librarian at S&T.

"One of the primary purposes of an academic library is to collect, preserve and provide access to materials of cultural significance to the campus," Weaver says. "I can think of no better example of culturally significant material than the *Rollamo*, our campus yearbook."

Weaver says they plan to remove physical access to many of the decaying, older yearbooks so they can take steps to preserve them. That's something they would like to do for other older artifacts, such as the *Missouri Miner*, the S&T student newspaper. ■



Roger Weaver manages the digital collections at Curtis Laws Wilson Library, which now houses a digital version of every *Rollamo* yearbook from 1907 to today.



The S&T Archives wants your slide rule (and other stuff, too)!

**Do you have an old slide rule
sitting around gathering dust?
Consider donating it to the
Missouri S&T Archives.**

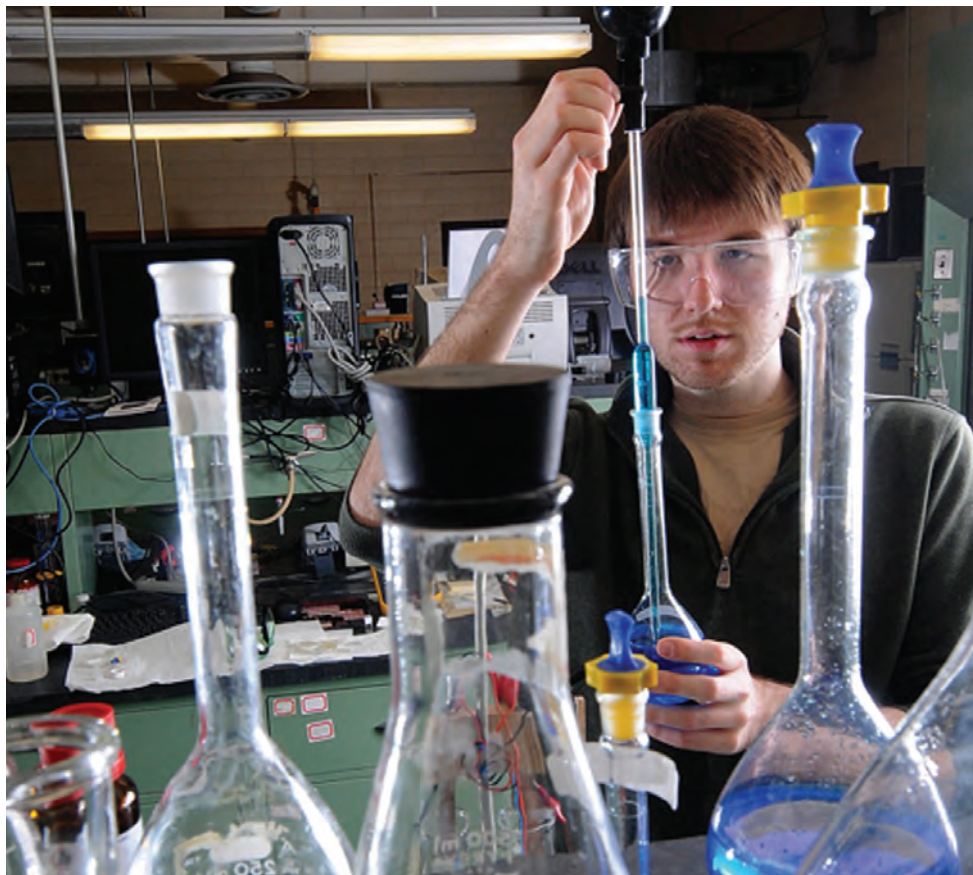
Help the archives build its collection of pre-computer calculation tools by donating your slide rule to the university. Using more modern calculation tools, the archives staff estimates it houses around 170 slide rules, calculators, planimeters and other strange items used for calculating.

Since its founding in 1978, the Missouri S&T Archives has been the official repository of the historical, legal and cultural records of the university. They preserve interesting artifacts, too.

If you have any MSM, UMR or Missouri S&T memorabilia you no longer need — slide rules, photographs, buttons, yearbooks — S&T Archives is looking for you.

Contact **Diana L. Ahmad**, university archivist, at 573-341-4817 or email ahmadd@mst.edu for more information.

Senior chemistry student Casey Burton is helping find an easier method of testing for prostate cancer without using high-tech machinery. Instead, he uses an enzyme to make a simple chemical fluoresce.



IN PRINT

Ben Bayse, professor emeritus of mechanical engineering, published an autobiography titled *Lightening Ben: I Flew with Eagles*.

Trent Watts, an associate professor of English and technical communication, wrote an essay titled “What Makes a ‘Newcomb Girl’?: Student Culture in the Progressive Era,” that was published in a book titled *Newcomb College, 1886-2006: Higher Education for Women in New Orleans*.

S.N. Balakrishnan, Curators’ Professor of aerospace engineering, co-edited a textbook titled *Advances in Missile Guidance, Control and Estimation*.

NEW APPROACH TO DETECT PROSTATE CANCER

Using a simple chemical reaction that makes metabolites in the urine samples of prostate cancer patients glow, senior chemistry student Casey Burton is helping find an easier method of testing for the disease than the conventional prostate-specific antigen (PSA) test. Burton’s method is also less costly and more accurate.

He says treating urine samples with an enzyme that is similar to amino acids and nucleic acids can determine the concentration of the metabolite sarcosine. Even though the link between sarcosine and prostate cancer has been refuted, Burton’s method for detecting its presence could be used to test for the presence of other metabolites that are linked to various diseases.

“Instead of using fancy machinery, I can use an enzyme to make the chemical fluoresce,” he says. “So we can effectively analyze our urine samples, and determine whether or not they contain metabolites.”

The system’s low cost when compared to traditional PSA tests is also a plus, Burton says.

“This costs a tenth of a penny per sample, compared with the \$70 or so it costs to get a PSA test at a health clinic or doctor’s office,” he says.

Burton’s research was published in *Analytical Methods* in January 2012. His co-authors are **Yinfa Ma**, Curators’ Teaching Professor of chemistry, and **Sanjeewa Gamagedara**, PhD Chem’12. ■

◀ S&T WINS 'GOLD' IN MINE RESCUE

A group of Missouri S&T mining engineering students won the annual underground mine rescue competition held at Missouri S&T's Experimental Mine in October. It is the first win for S&T since 1988.

The student team competed against 12 teams from industry and another S&T squad, which finished 10th in the competition.

During the competition, teams are evaluated on how they handle a simulated disaster situation underground. The events are set up and judged by representatives of the federal Mine Safety and Health Administration.

The teams are rated on how well they follow the basic rules and regulations of the underground rescue problem, and they are graded on written exams. Mine rescue competitions also feature tests involving first aid and maintaining self-contained breathing gear.

In addition to winning the underground portion of the event, the S&T Gold Team won the in-state trophy for performing best in the underground event among all six Missouri teams in the competition. The Gold Team also finished in fifth place overall, while the other S&T squad, known as the Black Team, finished 12th. A team from The Doe Run Co. finished first overall in the event.



SPORTS BY THE NUMBERS

4,361

Assists by senior **Jennifer Costello** in her volleyball career — a new school record.

Shutouts recorded by the S&T's men's soccer team during the 2012 season, the second-most in a season in school history.



The number of Lady Miner basketball players who scored 1,000 points and pulled down 600 rebounds in their careers: **Tanya Hough**, LSci'89; **Jennifer Cordes**, ME'91; **Tamara McCaskill**, ChE'10; and senior **Hailee Parks**.

9

National rank attained by the Miners in the American Football Coaches Association's final regular season poll on Nov. 12. This marks the first time the S&T football team has been nationally ranked since 1984. The team ended the season ranked 24th.

458

Allyson Smith's finish at the Great Lakes Valley Conference Cross Country Championships, making her the second Lady Miner runner to earn All-GLVC honors.

19

3

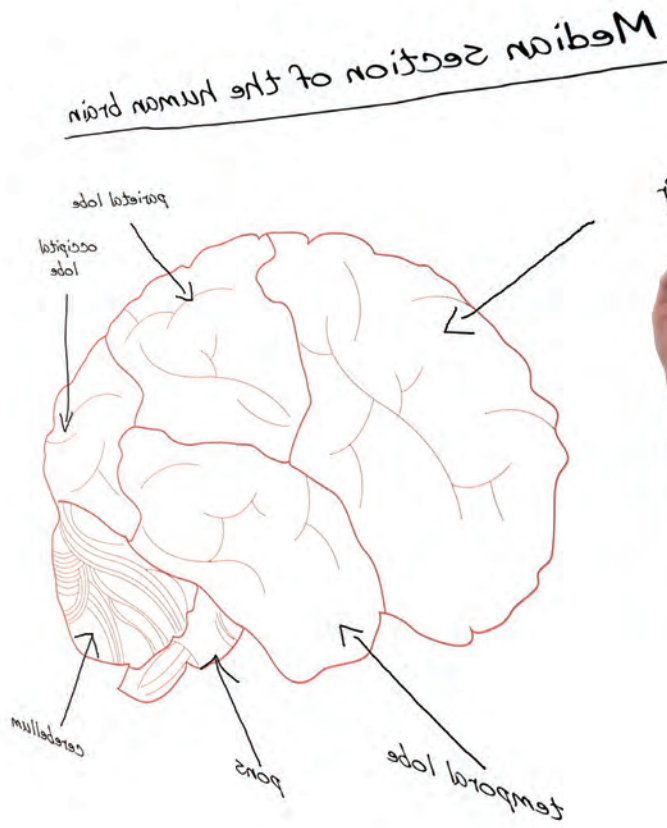
Soccer goalkeeper **Matt Jackson's** national ranking for save percentage (.867) at the NCAA D II level.

Points scored by the Miner football team in 2012 — a new school record.

11

332 & 159

The number of kills and blocks, respectively, by volleyball freshman **Krista Haslag**, the Great Lakes Valley Conference's co-"Freshman of the Year" for the 2012 season. Haslag was named to the American Volleyball Coaches Association All-American third team — the first player in the program's history to receive All-American honors.



DIANE STRONG:

BREAKING THE MOLD

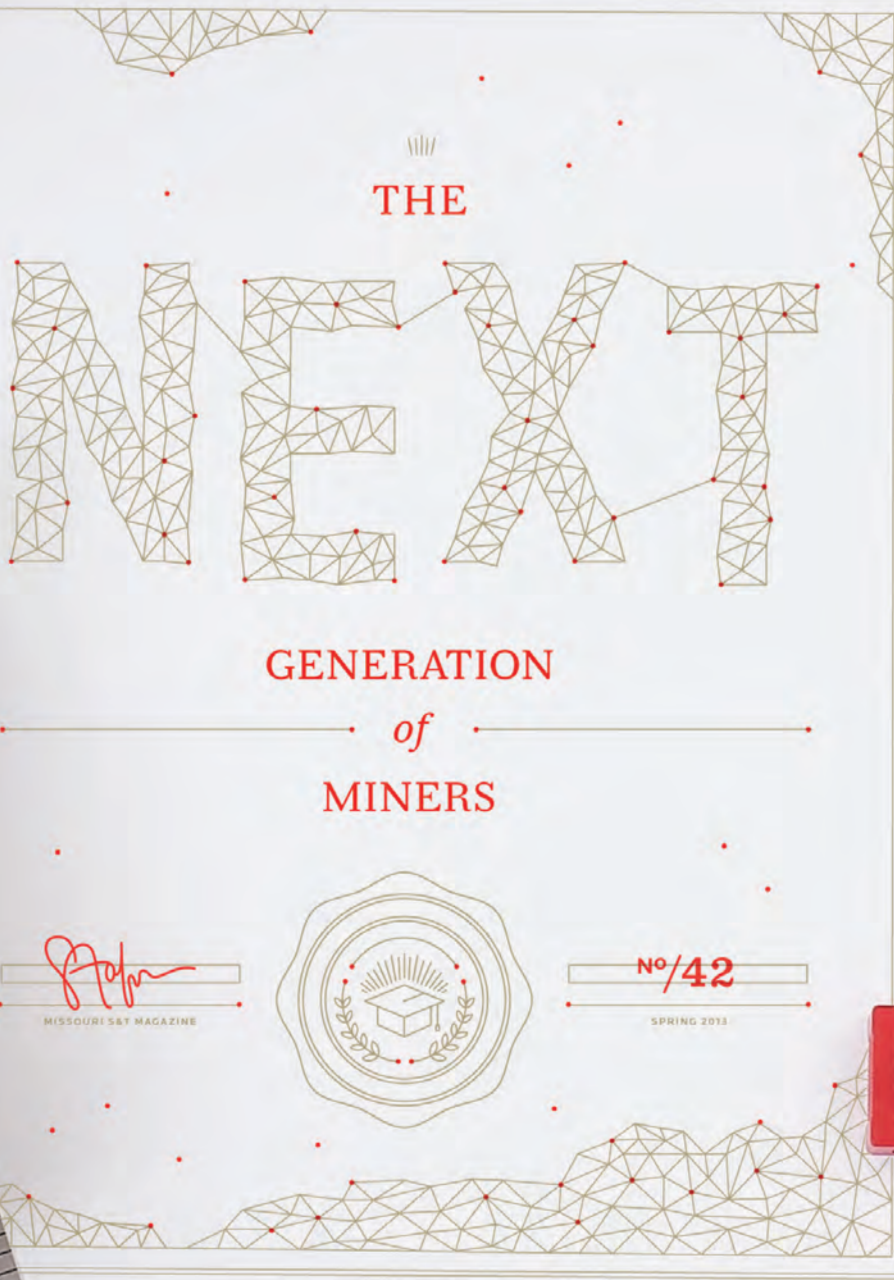
Stats: While a majority of the S&T student population tends to focus on engineering, ever-bubbly junior **Diane Strong** is pursuing a degree in psychology with a minor in technical communication. “Psychology is a science, so it makes sense to go to a science and technology school.”

Ambassador Strong: “I like being able to introduce prospective students to S&T,” says the student ambassador from Cape Girardeau, Mo. “Each dorm has its own culture. I enjoy helping future students find which residence hall would be a great fit for them. If an incoming freshman is more social, I point them to the Quad. More reserved, then TJ or the Residential College may be better for them.”

Run, Diane, run: A walk-on member of the varsity cross country and track and field teams, Strong loves running. “I tried every sport out there, but I was good at running,” says the M-Club member. Often up for 5 a.m. practices, she jokes that she has mastered running while sleeping. She uses the time to think about “anything and everything, and a little bit of nothing.”

On the brain: The driving force behind her decision to major in psychology was her interest in human resources. Strong is vice president of PsyCo (the student psychology club) and a member of Psi Chi national honor society.

Post-college plans: This past fall, in an effort to prepare for her post-college plans, Strong worked at the S&T Haunted Mine. In return, she made friends with multiple mining engineering students, which gave her “a perspective into the engineer’s mind” and allowed her to make personal connections she can use after graduation. “I would love to be an HR representative recruiting for a mining company because of the emphasis on public safety — they are required to put in the extra effort to maintain a safe reputation.” ■



THE

NEXT

GENERATION
of
MINERS

John
MISSOURI S&T MAGAZINE



Nº/42
SPRING 2013



Where

GENER

process

STAT PLOT F1

2ND
ALPHA
TEST A
MATH
MATRIX



**Creating a better tomorrow.
That has been a theme for Rolla graduates for more than 140 years.**

Throughout the university's history, a steady stream of students has come to Rolla in search of a world-class education. For these individuals, Missouri S&T is more than just a place to get a diploma. It's a place where they find their direction, learn how to be leaders and question conventional thinking. It's a place where they can follow their own personal path and shape a future that's distinctly their own.

That's what a Missouri S&T education is all about.

Today, those lessons in leadership, critical thinking and practical applications are taught everywhere — from our bustling classrooms and laboratories to our thriving student design teams and other organizations, and on the Internet. Today's Miners don't have to sit in a Rolla classroom to benefit from the expertise of our faculty. Use of distance education at S&T has grown 77 percent in the last five years alone.

And that's just the start. Global opportunities abound for those who are curious — students who want to see the world, do what they can to help others and fix the big issues facing our nation and world. And be prepared for what comes next.

It's an exciting time to be a Miner.

Our student body doesn't look much like it did in the 1940s and '50s. And we've come a long way since 1960, when **Lelia Thompson Flagg**, CE'60, became the first African American to graduate from Missouri S&T. Back then, women and minorities on campus were scarce. Flagg had to live off-campus, since there was no housing for female students. Now we have a record 1,732 women enrolled at S&T. And at 804, the number of minority students continues to climb.

Today's students grew up in an age when cell phones and the Internet were commonplace, and space travel was more than just science fiction. They may look and dress differently, or carry smart phones instead of slide rules, but they share the same appreciation for hard work as the graduates who came before them. Like their predecessors, they are athletes, researchers, design team members, Greeks, independents, planners, dreamers and more.

The five students who tell their stories on the following pages are just a sample of the next generation of Miners. They are shining examples of the Miner virtues of dedication and personal drive. They solve problems for fun. They are breaking stereotypes and working to solve grand challenges.

Miners are engineers, scientists, innovators and more. In the last century, they drove the Industrial Revolution and launched the Space Age.

We don't know what tomorrow's greatest revolution will be. But we are confident our students can lead it.



“If you think engineers are problem-solvers, you need to meet my friends from Tacachia.”

— **Rachel Feist**, senior, geological engineering

Good works

by Mindy Limback, limbackm@mst.edu

Rachel Feist witnessed the destructive effects of poor water quality. But she’s also seen how her skills can make life a little better for people — especially those living thousands of miles away from her hometown of Tulsa, Okla.

“Being in Tacachia, Bolivia, was nothing that I could have imagined,” says Feist, a member of S&T’s Engineers Without Borders chapter. “I left the U.S. thinking that I would be working on some engineering projects to help get a community clean water to drink, wash and cook with. But really, it turned out to be a partnership between us and the members of the community.”

An avid runner, Feist says she first became interested in engineering as a teenager. She excelled in science and mathematics and wanted to find a way to use that talent to help others. During a visit to S&T’s campus, the track and field athlete met with geological engineering professors and was impressed to hear about students’ efforts to create sustainable clean water in Guatemala using clay pot filters.

Now a senior in geological engineering, Feist traveled to the northeast region of Brazil this year as a member of her international design class. It was Feist’s second trip to the country, as she previously studied for six months in Rio de Janeiro, a city in the southeast region of Brazil.

“While I was in Brazil as a study abroad student, I wasn’t actually aware that I would be going back with this class,” she says. “I didn’t know anything about cyanobacteria, but I was very aware of the water sanitation situation in Brazil.”

She says waste and trash have compromised the water quality in many of the reservoirs in the area, turning the water supply into one that’s prone to form toxic blooms of the aquatic bacteria.

Feist says her experience with EWB has shaped how she views her value and her responsibility as an engineer. Currently a health and safety officer, she has traveled to Tacachia two times, leading the team in 2010.

“If you think engineers are problem-solvers, you need to meet my friends from Tacachia,” she says. “Though they have so much less in terms of modern material things than we do, they show so much joy and life and enthusiasm that I have been tempted to hide out and never leave.”



A. A new member of the Lady Miners cross country team, Feist helped the team earn a seventh-place finish at the Jackling Jocks Invitational.

B. A variety of testing instruments are used to determine whether water is safe to drink.

C. The vibrant colors of the Brazilian flag make perfect artwork for a sarong.

Feist's portrait was taken in Schrenk Hall.

A

C

B



“Some people shy away from the future. I run toward it with vigor.”

— **Michael Bouchard**, junior, geology and geophysics

A man with a plan

by Mary Helen Stoltz, mhstoltz@mst.edu

Do you know where you will be five years from now? How about 10 years from now? **Michael Bouchard** does. He has a 15-year plan for personal success and has carefully outlined every step required to get him there.

“I love to plan. I love to make lists,” says Bouchard, a junior in geology and geophysics from Ballwin, Mo. “Some people shy away from the future. I run toward it with vigor.”

A self-proclaimed “band geek,” he chose Missouri S&T because he immediately fit in.

“There is a freedom here, too,” Bouchard says. “You have the chance to remake yourself exactly how you want to be, and really take control of your life and your future.”

Bouchard loves the variety of opportunities available to him at Missouri S&T. He plays trumpet in the marching band and is active in Fencing Club and National Residence Hall Honorary, among others. Last year, he played Charlie Bucket in the S&T theater production *Willy Wonka*. He is one class away from completing a minor in Russian.

“It’s not a matter of what can I do, but what do I have time to do!”

Bouchard works with **John Hogan**, associate professor of geological sciences and engineering, to research the mysteries of bizarre dome-like structures in Egypt’s Afar Desert using satellite imagery. Called “desert eyes,” these structures make the terrain look like bubble wrap, he says.

“The eyes are structural domes, but are often topographically flat,” Bouchard explains. “If you didn’t know they were there, you could walk right by them. However, when viewed from space, they create some truly incredible pictures.”

Bouchard’s love of space fits into his plan in other ways, too.

Hanging on Bouchard’s wall is a 176-goal flow chart he hopes will lead the Mars Rover Design Team to success. Bouchard is CEO of the group he co-founded with 15 friends last fall. The team — the newest group to be included in the Student Design and Experiential Learning Center — is designing and building a remote-controlled vehicle capable of traversing the red, rocky terrain of Mars. The team will take part in a summer 2013 competition sponsored by The Mars Society.

Ultimately, Bouchard wants to be an astronaut. Until then, he plans to spend four years in college, five years working in the field of exploration geology and six years working on a Ph.D. in planetary geology — the study of other planets.

“I have high goals and it will take a lot of hard work and dedication to get there,” Bouchard says. “And a plan.”

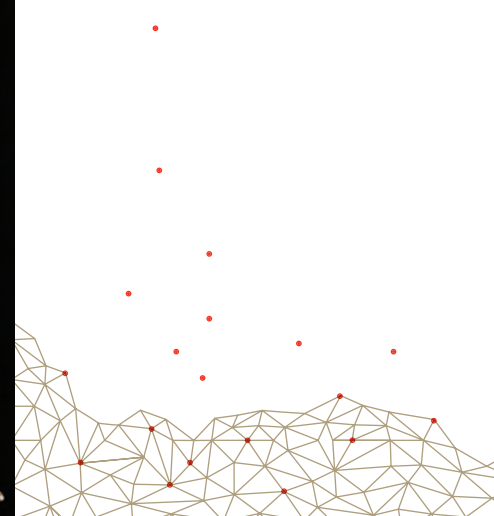
But if things don’t work out the way he plans, he’s all right with that, too. In fact, he’s on version 12 of his four-year college course plan.

“I have had to learn that while it is okay to have plans, you must still be flexible,” he says. “Plans help you have a direction, but they must be realistic, flexible and true to you.”



- A. Through the Mars Rover Design Team, Bouchard is helping design and build a remote-controlled vehicle capable of traversing the rocky terrain of the red planet.
- B. Bouchard, who plays trumpet in the S&T Marching Band, describes himself as a “band geek.”
- C. Bouchard wants to be an astronaut. Until then, he plans to work on a Ph.D. in planetary geology.

Bouchard's portrait was taken at Capital Quarries north of Rolla.





“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.”

— **Wesley Hackett**, junior, architectural and civil engineering

Engineering ... with a twist

by Mindy Limback, limbackm@mst.edu

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 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.”



A

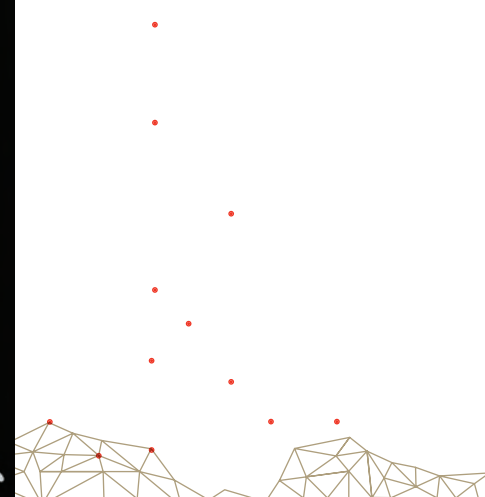
B

C



- A. Hackett is no stranger to working with lights — from the drafting table to the stage.
- B. The V-Cube 7 is a seven-layered cube with 218 small pieces, called cubies.
- C. Hackett enjoys freehand drawing and credits those assignments for helping him to better graphically express ideas.

Hackett's portrait was taken in Butler-Carlton Civil Engineering Hall.





“You can’t really study for it, you just have to practice it.”

— Marquia Lewis, sophomore, computer science

Dancing with code

by Andrew Careaga, acareaga@mst.edu

It’s no surprise that **Marquia Lewis** decided to study computer science in college. “I was around computers all the time growing up, and I really like them,” says Lewis, a sophomore whose mother, a software engineer for the Boeing Co. in St. Louis, also majored in computer science.

But Lewis just as easily could have majored in dance. She was on the dance and step teams at Hazelwood Central High School in St. Louis, and she was active in her church’s dance and music ministry while growing up.

Fortunately, she has an outlet for dance at S&T. You’ll often find her performing with the Gold Miners dance squad at a football or basketball game or expressing her spirituality through dance at a Voices of Inspiration Gospel Ministries event.

Jessica Harvey, a high school friend-turned-S&T classmate, introduced Lewis to Voices of Inspiration during her freshman year. It was a great fit because it combined Lewis’s passion for dance with her faith. A year later, she became president of the 20-member organization.

While involvement in the Gold Miners and Voices takes up much of her spare time, Lewis also serves on Missouri S&T’s Diversity Leadership Council and Student Diversity Mentoring Program. Last summer, she mentored incoming freshmen as part of S&T’s Opening Week program.

“I decided to do that because I really enjoyed Opening Week my freshman year,” she says. “I also wanted to challenge myself, because like a lot of computer science majors, I’m kind of an introvert.”

She also finds time to game. She especially likes the Halo series of multi-player online games. “Most guys are surprised when they find out I have my own Xbox 360,” she says.

Although she loves computers, coding doesn’t come easily to her. She didn’t take any computing classes in high school, so at times she feels like she’s behind the curve of other S&T computer science students. But she’s found that her fellow comp sci majors are willing to help or offer advice.

“I go to the computer labs in the Computer Science Building a lot,” she says. “Someone’s always there and is always willing to help you out. I’ve had to learn how to reach out, and learn that it’s OK to do that when you don’t know the answers.”

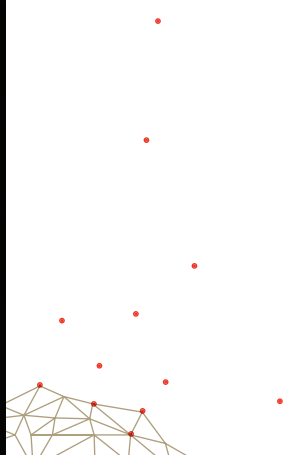
The biggest challenge with coding, she says, is that “you can’t really study for it, you just have to practice it.”

In that regard, coding is a lot like dance. Practice makes perfect.



- A.** Lewis joined the Voices of Inspiration gospel choir because it combined her passion for dance with her faith.
- B.** Coding doesn't come easily to this computer science major, but she gets a lot of practice.
- C.** Lewis loves gaming, especially the Halo series.

Lewis's portrait was taken in Leach Theatre.





“I told him I wanted to save the world, and he pointed me in the right direction.”

— **Brian Peterson** ChE'11,
graduate student, chemical engineering

A lesson in dedication

by Megan Kean-O'Brien, keanmm@mst.edu

Brian Peterson's dedication to football — and to Missouri S&T — helped push the Miners to a record 10-1 season and landed him on the Capital One Academic All-America team. He is only the 19th Miner in the history of the football program to be selected for this honor.

The Jacksonville, Ill., native came to Rolla as a football recruit. “Football alone is a full-time job between watching film, attending meetings and practice,” says the offensive lineman. “But it has taught me time management and commitment.”

During the 2010 season, Peterson, ChE'11, tore the anterior cruciate ligament (ACL) in his left knee. After a year of rehabilitation, he was ready to get back on the field. “I've never been so happy to get back on the treadmill and train,” says Peterson. However, fate had a different plan. On the fourth day of fall camp, Peterson's season ended early yet again after he tore the ACL in his right knee. Dealing with such injuries “puts things in perspective for you,” he says.

A medical hardship waiver allowed Peterson to extend his playing eligibility, and with that came the opportunity to continue at S&T as a graduate student and work with **Joseph Smith, the Wayne (CE'67) and Gayle Laufer** Endowed Energy Chair and director of the Energy Research and Development Center. “I told him I wanted to save the world, and he pointed me in the right direction.”

Peterson is studying electrical and solar details of energy storage and renewability. “Hybrid energy is the future,” he explains. “It's a more advanced, dispatchable form of energy. Solar energy is far more viable and widespread, though it could take years for application on a larger scale.” Peterson's enthusiasm and dedication to his research is nothing short of what someone would expect when meeting him.

“I have to make the most of my opportunities, and when I commit, I commit 100 percent,” he says.

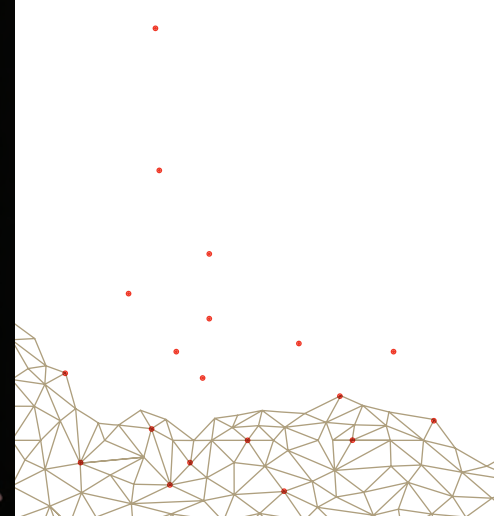


A. An offensive lineman, Peterson helped the Miners end the 2012 season at No. 24 in the American Football Coaches Association poll.

B. The M-Club encourages increased participation in S&T's varsity sports program and stimulates sportsmanship and spirit among varsity athletes.

C. Peterson sees hybrid power systems — the combination of solar photovoltaics with other power generation devices — as key to the future.

Peterson's portrait was taken in Emerson Hall.



MISSION, GOALS AND BENEFITS

MISSION

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 increases its financial strength and provides aid and support to deserving students, faculty and alumni.

GOALS

- Increase alumni pride in their association with Missouri S&T and the Miner Alumni Association
- Increase alumni involvement, especially that of young alumni
- Increase alumni contributions, both in the number of alumni making a financial commitment and in the dollars raised to benefit Missouri S&T and the Miner Alumni Association
- Strengthen relationships with faculty, staff and students on behalf of the alumni association.

The officers and other members of the association's board of directors provide leadership and personal participation to achieve these goals and fulfill this mission. For their efforts to be a success, they need YOUR active participation as well, in whatever alumni activities you choose.

BENEFITS

CAREER ASSISTANCE

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

SERVICES

Online Community

including searchable directory at mineralumni.com

Access to alumni office

via email (alumni@mst.edu)

Address update service

so you don't miss your Missouri S&T mail

Insurance discounts

Travel opportunities

MINER MERCHANDISE

Chairs, license plates for Missouri residents and the official Missouri S&T ring.

GET MORE INFORMATION

Want to know who else is planning to attend a section event in your area? Need more details about an upcoming event? Register online at mineralumni.com, click on the events tab, select the events you want to attend then click registration.



MINER ALUMNI ASSOCIATION

Representing more than 50,000 alumni worldwide



For more information about your representatives, go to alumni.mst.edu/groups/boardofdirectors.

PRESIDENT

JOHN F. EASH '79
johnneash@miner.mst.edu

PRESIDENT-ELECT

RICHARD W. EIMER JR. '71
cocoabean77@comcast.net

VICE PRESIDENTS

ERNEST K. BANKS '81
ernie.banks@bjc.org

DELORES HINKLE '75
djhinkle@marathonoil.com

HELENE HARDY PIERCE '83
hpierce@gaf.com

RONALD W. JAGLES '86
ronjagles@gmail.com

STEPHEN W. RECTOR '72
swr@rimop.com

ROBERT J. SCANLON '73
rjscanlon@comcast.net

TREASURER

JERRY R. BAYLESS '59
jerryb@mst.edu

ASSISTANT TREASURER

RICHARD L. ELGIN '74
elgin@rollanet.org

SECRETARY

W. KEITH WEDGE '70
keith.wedge@advancia.com

ASSISTANT SECRETARY

CHRIS RAMSAY '83
cramsay@mst.edu

DIRECTORS-AT-LARGE

BILL BRUNE '75
tallbill@bruneweb.com

PRESTON CARNEY '02
pcarney@cox.net

KURT HASLAG '07
khaslag@askbrinkmann.com

DARRIN TALLEY '88
darrin.l.talley@exxonmobil.com

MIKE MCEVILLY '80
michaeljmcevilly@comcast.net

JON C. SCHNEIDER '87
jon.c.schneider@boeing.com

AREA DIRECTORS

Area 1: **DOUGLAS MARQUART '82**
dwmarquart@yahoo.com

Area 2: **CHRISTOPHER MAYBERRY '89**
cmmayberry@yahoo.com

Area 3: **BRIAN TENHOLDER '97**
btten1189@carolina.rr.com

Area 4: **JOHN KEATING '73**
jmkeating@aol.com

Area 5: **DAWN STUFFT '99**
dmstufft@marathonpetroleum.com

Area 6: **ART GIESLER '77**
art.giesler@att.net

Area 7: **BERNARD HELD '75**
bheld@cmtengr.com

Area 8: **TOM FEGER '69**
tfeger@hanson-inc.com

Area 9: **NATHAN RUES '02**
nruess@hotmail.com

Areas 10-18: **MICHAEL BUSBY '78**
mbsusy@mcsworldwide.com

Areas 10-18: **ALAN ERICKSON '75**
alerickson@gmail.com

Areas 10-18: **RHONDA GALASKE '79**
rhondagalaska43@gmail.com

Areas 10-18: **RUSSELL GOLDAMMER '78**
russell_goldammer@ctsinc.biz

Areas 10-18: **POLLY HENDREN '73**
phendren@oceanside-tower.com

Areas 10-18: **JEREMIAH KING '06**
jeremiah.king@askbrinkmann.com

Areas 10-18: **CHRIS RAMSAY '83**
cramsay@mst.edu

Areas 10-18: **STEPHEN SQUIBB '98**
steveandamie@gmail.com

Areas 10-18: **BRECK WASHAM '90**
bwasham@burnsmcd.com

Area 19: **DANIEL BAILEY '03**
daniel.jaye.bailey@gmail.com

Area 20: **GREGORY SKANNAL '85**
gskannal@mindspring.com

Area 21: **DANIEL JACKSON '90**
djack1003@cox.net

Area 22: **DAVID BUFALO '66**
djbufalo@msn.com

Area 23: **DENNIS LEITTERMAN '76**
dennis_leitterman@yahoo.com

Area 24: **M. THERESA WILLIAMS '98**
theresa.williams@pxd.com

STUDENT REPRESENTATIVES

Student Council President:
RYAN BECK
rdb4hd@mst.edu

Graduate Student President:
MOHAMMAD ALKAZIMI
cgs@mst.edu

Student Union Board President:
IAN LEE
ial7c9@mst.edu

COMMITTEE CHAIRS

Student Engagement
ERNEST K. BANKS '81
ernie.banks@bjc.org

Alumni Engagement
HELENE HARDY PIERCE '83
hpierce@gaf.com

Strengthen Campus Relations
MICHAEL MCEVILLY '80
michaeljmcevilly@comcast.net

Finance
STEPHEN W. RECTOR '72
swr@rimop.com

Communications and Marketing
JON C. SCHNEIDER '87
jon.c.schneider@boeing.com

PAST PRESIDENTS

ARTHUR G. BAEBLER '55
ivybaeb@att.net

ROBERT D. BAY '49
rdbay673@yahoo.com

ROBERT T. BERRY '72
rberrytwin@aol.com

JAMES E. BERTELMEYER '66
pinnacleinvestmentsllc@gmail.com

ROBERT M. BRACKBILL '42
rbrackbill@hotmail.com

MATTEO A. COCO '66
cocohm@sbcglobal.net

LARRY L. HENDREN '73
lhendren@ess-inc.com

ZEBULUN NASH '72
zebnash@sbcglobal.net

JAMES R. PATTERSON '54
jrpat@charter.net

DARLENE (MELOY) RAMSAY '84
ramsayd@mst.edu

PERRIN R. ROLLER '80
roller@miner.mst.edu

SUSAN HADLEY ROTHSCHILD '74
srothsch@swbell.net

GERALD L. STEVENSON '59
stevenson63@verizon.net

JOHN B. TOOMEY '49
starrmgmt@aol.com

STAFF

KATIE JACKSON
Assistant Director
jacksonkj@mst.edu

KATIE MACHOVSKY
Manager of External Relations
laymank@mst.edu

GILLIAN MASTERS
Administrative Assistant
mastersgd@mst.edu

DARLENE (MELOY) RAMSAY '84
Executive Director of Alumni Relations
and Advancement Services
ramsayd@mst.edu

RENEE D. STONE
Accountant
renees@mst.edu

NANCY ZAMAZANUK
Manager of Internal Relations
nancyz@mst.edu

UPCOMING EVENT: KANSAS CITY STUDENT SEND-OFF PICNIC

On July 27, **Jim CE'74**, **MS CE'75**, and **Ann Foil** will open their home to the Kansas City Section for its annual Student Send-Off Picnic. Nearly 100 alumni, students and friends gather on the Foils' lawn each year to have fun, network, and meet current and future Missouri S&T students. Several teams from the Student Design and Experiential Learning Center will display their projects. Come and join Missouri S&T supporters to make the Kansas City Section Student Send-Off the Best Ever!

UPCOMING SECTION EVENTS

For updated information on student design competitions, please visit design.mst.edu/competitiondates.

Alaska

Student Send-Off
Thursday, July 18
6–10 p.m.

Home of James "Von," ME'78, and Jan Cawvey
2231 Loren Circle
Anchorage, Alaska

Bay Area

Human Powered Vehicle Competition
1 p.m. Friday, April 12

NASA Ames Research Center,
Moffett Field, off of Highway 101

Dinner after competition
6:30 p.m. Friday, April 12

Mario's Italiano
861 Leong Drive
Mountain View, Calif.

Student Send-Off
Saturday, July 27
5 p.m. Cocktails
6 p.m. Dinner

Location TBD

Driftless

Third Annual Golf Tournament
Saturday, June 22

9:30 a.m. Registration
10:30 a.m. Shot Gun Start
6 p.m. Dinner and awards

Silvercrest Golf and Country Club
2772 College Drive
Decorah, Iowa

Houston

Miners in Space
7 p.m. Sunday, June 9

El Dorado Mexican Restaurant
1962 El Dorado Blvd.
Houston

Baseball Game, Cardinals vs. Astros
7:10 p.m. Wednesday, June 26

Minute Maid Park
501 Crawford St.
Houston

Student Send-Off
6 p.m. Saturday, July 27
(Dinner 6:30 p.m.)

Home of Dan, EMgt'73, and Delores,
PetE'75, Hinkle
22 Elderberry Trace
Sugar Land, Texas

Kansas City

Student Send-Off
11a.m.–2 p.m. Saturday, July 27

Home of Jim, CE'74, MS CE'75, and Ann Foil
1812 SW Summit Valley Drive
Lee's Summit, Mo.

Lincolntland

Annual Golf Tournament
Friday, May 17

11:15 a.m. Registration
11:30 p.m. Tee Time
5 p.m. Social Hour
6 p.m. Dinner

Piper Glen Golf Course
7112 Piper Glen Drive
Springfield, Ill.

Student Send-Off
Sunday, Aug. 4
3–8 p.m.

The home of Rich CE'69 and Carolyn Berning
10 BeachView Lane
Springfield, Ill.

Mid-Tennessee

Baja SAE Competition
Sunday, April 21
Time TBD

Tennessee Tech University
1 William L. Jones Drive
Cookeville, Tenn.

Motor City

Formula SAE Competition
1 p.m. Friday, May 10

Michigan International Speedway
12626 U.S. Highway 12
Brooklyn, Mich.

Dinner after competition
7 p.m. Friday, May 10

Carlyle Grill
3660 Jackson Road
Ann Arbor, Mich.
734-213-9800
carlylegrill.com

Robotics Competition
1 p.m. Saturday, June 8

Oakland University
2200 N. Squirrel Road
Rochester, Mich.

Dinner after competition
7 p.m. Saturday, June 8

Red Ox Tavern
3773 E. Walton Blvd.
Auburn Hills, Mich.

Student Send-Off
6–8 p.m. Saturday, July 27

Home of Andrew, EE'04, MS EE'06, and Tessa, ME'04, MS ME'06, Baughman
37845 W. Meadowhill Drive
Northville, Mich.

NE-IA

Formula SAE Competition
1 p.m. Friday, June 21

Lincoln Airpark
3401 W. Luke
Lincoln, Neb.

Rocky Mountain

Student Send-Off
Saturday, Aug. 3
Time TBD

location TBD

St. Louis

Annual Golf Tournament
Saturday, June 22
12:30 p.m. Registration and Lunch
1:30 p.m. Shotgun Start
6:15 p.m. Dinner and Awards

Wolf Hollow Golf Club
4504 Highway 100
Labadie, Mo.

Night at the Races
Saturday, July 13

6 p.m. Dinner Buffet
7:30 p.m. Race

Fairmount Park,
Black Stallion Buffet Room
9301 Collinsville Road (Route 40)
Collinsville, Ill.

SECTION WRAP-UP: TULSA CELEBRATES WITH CHANCELLOR CHERYL B. SCHRADER



On Saturday, Feb. 2, the Oklahoma Section extended a Sooner State welcome to Chancellor **Cheryl B. Schrader**. The section met at the Zarrow Center for Art and Education where they viewed an eclectic art exhibit while enjoying cocktails and an hors d'oeuvres buffet. Alumni networked, reminisced and discussed the university's current state of affairs and strategic direction. Chancellor Schrader may head to your section in the future, so watch for announcements in *Missouri S&T Magazine*, the Miner Alumni Association eNewsletter or an email invitation to an event in your section.

CLASS NOTES

PUBLICATION POLICY

We publish information submitted by alumni, news submitted by employers of alumni, and selected news stories that mention alumni and their affiliation with Missouri S&T. We are happy to announce weddings, births, promotions and other happy occasions after they have occurred. We will print addresses if specifically requested to do so by the alumnus/alumna submitting the note and will mention a spouse's name if it is specifically included in the submission. We reserve the right to edit alumni notes and will use submitted photos as space permits. Due to the production time required for each issue, submissions may take up to six months to appear. Your patience is appreciated.

ANNUAL ALUMNI RECEPTION AT BOEING

Missouri S&T alumni who work at the Boeing Co. in St. Louis gathered at the company headquarters on Dec. 5 to meet Chancellor **Cheryl B. Schrader** and other campus representatives as part of the Miner Alumni Association's annual alumni reception. Schrader highlighted the importance of the collaborative relationship between S&T and Boeing.

In addition to being one of S&T's top-hiring corporate partners, Boeing provides consistent scholarship, program and research support. Many of the alumni in attendance also commit their resources and time by serving on the alumni association board, advisory boards and academies, and by assisting with student-centered projects.

SHARE A CLASS NOTE

Let your classmates know what you've been doing. Send us information about your professional and personal accomplishments — career changes or promotions, weddings, births and other news — and we will publish it in an upcoming issue. Email your update and a high-resolution photo (if available) to alumni@mst.edu.

Deadline: Fall/Winter issue — June 15

1942

Niles K. Brill, MinE, would like to hear from any other "UW-Platteville" students. His email is brillbaytown@comcast.net.

Harold E. Maune, ChE: "I left MSM 70 years ago and retired 30 years ago from a successful career. Mrs. Maune and I are living in our home in Katy, Texas."

1943

Jack E. Fleischli, ME: "Still working at 91 as a part-time financial planner. Not because I have to, but because I enjoy helping folks prepare for retirement."

1949

Roy B. Deason, CE: "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."

1950

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

Enrique S. Heller, CerE, MetE'59, had knee replacement surgery and celebrated his 80th birthday.

Harold E. Tibbs, GGph: "Florence and I are celebrating our 65th year of marriage and are happy that we are both in good health after 22 years of retirement in Las Vegas."

1951

Bill Fairchild, GGph: "I am now completely

retired, having sold my microscope and donated my library to S&T. Claire and I are in good health and enjoy retirement here in Longmont, Colo. Slowing reflexes caused me to give up motorcycle trials competition a few years ago, but I still play tennis three times a week. It is amazing to read about the many changes at my alma mater since I trod the creaking wood floors of Norwood Hall so many years ago."

Elmer D. Packheiser, ME: "At age 35, our grandfather and his young wife bought 20 acres of land 8 miles north of Rolla. He cleared the land and built a log house." On Sept. 9, 2012, the family planned to celebrate Grandparents Day in the house his grandfather built.



◀ Sid Duerr PetE'50

"I celebrated my 85th birthday with my new lovely wife of four years, Dotti. I'm still trying to drill oil wells near my home in Corpus Christi, Texas. Still remember being welcomed to MSM by President Wilson and living in the old Jackling Gym. I played a little professional baseball, worked for USGS and various companies, and started my own consulting business. Here I am with my letters from my old smelly MSM jackets. If you're in the area, come visit."

1952

Edgar Oliphant, ChE:
“My first year at MSM was 1948. The progress that Missouri S&T has made is truly amazing. I really enjoy the S&T Magazine.”

1953

Nicholas Schurick, CE:
“Enjoying my time with my granddaughters Jacqueline, 13, and Elizabeth, 10, and grooming them to be engineers.”

1954

Harold A. Koelling, MetE, MS MetE'61, celebrated his 55th wedding anniversary on June 22, 2012.

1955

Campbell C. Barnds III, EE: “We have downsized from 38-plus years at our former address to live in Claridge Court Retirement Community in Prairie Village, Kan. I like not having to buy groceries or cook meals. I've been retired since 2000, but keep doing small consulting jobs. Once a Miner, always a Miner.”

Howard M. Brown, MS ME, retired from Richland Community College in Decatur, Ill. He is busy with grandchildren, travel, genealogy, volunteer work (including coaching a chess club) and “honey-do” jobs.

1956

Larry N. Fussell, ChE:
“After 40 years of computer applications management with Sinclair, BP and Chevron, I retired in 1996 and am now living in Napa Valley, Calif.”

1958

John R. Burrows, ME:
“Storage Masters self-storage has been one of the top 100 operators for the last four years. We were recently picked by an independent marketing company as No. 5 in the U.S. for brand recognition on the Internet. The only ones beating us are large operations.”

Jerry D. Vie, ChE, MS ChE'60: “Still enjoying retirement in Spring, Texas. Ruth and I enjoy the seasons here. Hope the same for every Miner.”

1959

Gerald A. Bramon Jr., CE:
“Married 63 years and enjoying life.”

Thomas L. Tucker, ME:
“I am cornetist and co-leader of a seven-piece traditional jazz group performing around the U.S. and Canada as well as internationally. In September we completed a 12-day jazz cruise in the Mediterranean. Music and flying and visiting my 12-year-old daughter in Indiana keep me busy.”

Edward O. Wakefield, CE:
“My wife, Lynn, and I are doing well and have

FUTURE MINERS

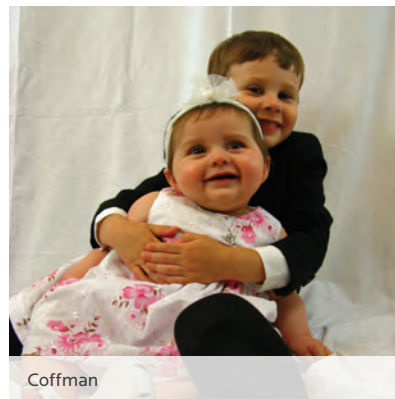
A – L



Ault



Jackson - Privett



Coffman



Lueddecke



Keeven

Brandon Nicholas Ault, ME'00, and his wife, Mary Ellen, had a boy, Anthony Lee, on Aug. 20, 2012.

Mathew Coffman, AE'03, and **Colleen (Fox) Coffman**, ME'04, had a girl, Susanna Mary, on Sept. 29, 2011. She joins brother Jonas, 3.

Aaron Jackson, CSci'07, ECE'07, and **Courtney Privett**, CerE'06, had a girl, Lyra Rose, on Dec. 8, 2011. She joins brother Rowan, 2.

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

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.

(continued on page 38)

A CURIOUSLY SUCCESSFUL BUSINESS



John Seaber, EE'09, started his business, JDS Labs Inc., as a part-time venture. Two years ago he quit his day job to give his full-time attention to the business and hire a few employees. Since then, he says revenues have grown at more than 300 percent each year and the company has been profitable every quarter. "We're doing very well," he says.

The company, located in Glen Carbon, Ill., makes customized, high-performance headphone amplifiers and digital-to-analog converters (DACs). One of its products, the cMoyBB V2.03, is cased inside a new Altoids tin, which protects the circuit board from some forms of electromagnetic or radio frequency interference.

JDS Labs used to outsource its custom aluminum end plates, but now owns a milling machine. "We had absolutely no machining experience, but this was the best way for us to improve our designs and control production," says Seaber. "Our cases are of noticeably higher quality than those machined by outside shops." Check out the company at jdslabs.com.

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."

1963

Edward G. David, CE, is looking forward to the 50th year reunion.

1965

Vibhakar R. Dave, MS Phys: "My darling wife passed away in September 2010. I have a new grandson named Avi from my daughter-in-law, Norma."

1966

John V. Andesilich, CE: "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."

Dave Bufalo, CE: "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*.

Alan D. Shaffer, MetE, MS EMgt'70: "For the last year and a half, I have been retired and caring for my wife, Sue, who has angiosarcoma, a very rare cancer. We are blessed with three daughters, three sons-in-law and 11 grandchildren. All are believers in our Lord and Savior Jesus Christ. What more could we ask for? God bless America."

Thomas H. Strickland, ME: "I established Strickland Engineering 33 years ago. Five of our eight engineers are Rolla graduates. We provide consulting engineering in 12 states and I still enjoy coming to work. Our sons, Mark and Brian, are engineers with Strickland and manage our projects. Our daughter, Resa, does our graphic arts design. Judy and I enjoy spending time with our 12 grandkids and hope the company continues for generations. Judy retired from teaching and we take several vacations each year. Life is great."

1967

Kenneth C. Bollinger, ME: "My wife, Fran, and I are retired and living in Marietta, Ga. We welcomed our first grandchild in September.

We are very excited about our new grandson and will be prepping him for Missouri S&T soon."

Warren R. Stanton, CE: "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."

Howard Stine Jr., Math, MS EMgt'70, was elected president of the board of directors of the Sheet Metal and Air Conditioning Contractors' National Association. He is executive vice president of Charles E. Jarrell Contracting in Earth City, Mo.

1968

Ralph H. Lueck, CE: "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."

Darrell W. Pepper, ME, MS ME'70, PhD ME'74, received the 2012 American Institute of Aeronautics and Astronautics Energy Systems Award.

1970

Donald Lueddecke, ChE, MS CE'81, see "Future Miners," page 35.

Darrel E. Wortman, EMgt, and his wife, Nancy, are both retired and living on the Mississippi River in Lansing, Iowa.

1972

Cesar J. Santucci Sr., CE: "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."

1973

Earl J. Poe III, CE, 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."

1974

Margaret M. (Durst) Poepsel, Math: "I am semi-retired. I still work part time at East Central College as a tutor and adjunct instructor. I am enjoying helping people who may have experienced difficulty with math in the past to better understand it."

Stephen Schade, ChE, MS ChE'75, wrote *Right is Wrong: The Case Against Conservatism*, which was recently published by iUniverse.

Ronald E. Sherard Jr., CE: "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."

1975

Tom Mittler, CE: "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."

1976

Dennis M. Gleason, MS GeoE, MS PetE'77, was named president of the Society of Independent Professional Earth Scientists. He is an independent petroleum engineer and owns Gleason Engineering in Arlington, Texas.

S&T WOMEN HONORED

Karlynn Sievers, LSci'96, Engl'96, assistant clinical professor at University of Wyoming-Casper Family Medicine, received the 2012 Missouri S&T Alumna of the Year Gold Award.

Rachel (Mace) Morris, AMth'96, assistant to the vice provost for undergraduate studies at Missouri S&T, received the 2012 Missouri S&T Alumna of the Year Silver Award.

Amber Julien, a junior in psychological science from Waynesville, Mo., received the 2012 Woman Student of the Year Gold Award.

Brittney Abel, a junior in psychological science from Republic, Mo., received the 2012 Woman Student of the Year Silver Award.

The Alumna and Woman Student of the Year Award endowment was created by three named female professors at Missouri S&T: **Mariesa Crow**, F. Finley Distinguished Professor of Electrical Engineering; **Dee Haemmerlie Montgomery**, Curators' Teaching Professor of psychology; and the late **Ann Miller**, former **Cynthia Tang** (Econ'85) Missouri Distinguished Professor of Computer Science. The awards are given to alumnae who are dedicated to enhancing the lives of women and committed to diversity.

S&T GRAD IMPROVES FORD SAFETY

The bumper on the 2013 Ford Fusion looks sporty, but it also sports new safety design features. Ford engineer **Raj Jayachandran**, PhD EMch'91, helped develop "crush can technology" that is designed to protect passengers and reduce damage to the main components of the car in front-end crashes.

Similar to soda cans, the crush cans are hollow pieces of metal designed to collapse as they absorb the impact of a crash.

"After testing more than 120 different shapes for the Fusion crush can, we found the diamond square to be the best shape to help offer protection at low- and high-speed impact," Jayachandran told *Auto Trends Magazine*.



◀ **Jeff Melcher** ME'83

Jeff Melcher was elected to the Kansas State Senate representing the state's 11th district. He is CEO and co-founder of NetStandard Inc.



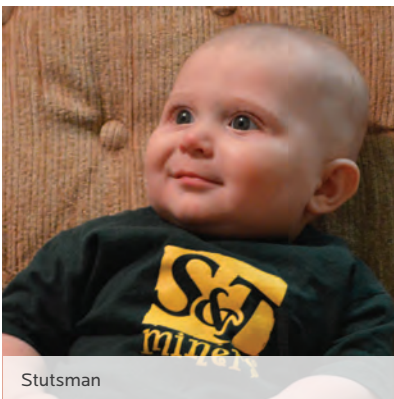
◀ **Mimlitz and Klug**

Jim Mimlitz, EE'88 left, was awarded a patent for "Supervisory Control and Data Acquisition Protocol Converter." He was legally represented before the U.S. Patent and Trademark Office by St. Louis attorney **Kevin L. Klug**, EE'82, right. The patent represents years of research and product development for the EtherMeter, an electronic flow-metering and protocol-conversion instrument manufactured by SCADAmetrics, a division of Mimlitz's company, Navionics Research Inc.

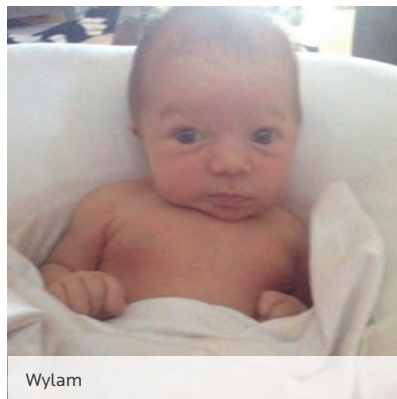


Schmidt

FUTURE
MINERS
L - Z



Stutsman



Wylam

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.

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

John Stutsman, EE'77, and his wife, Kathy, became grandparents to Luke Benjamin on Jan. 9, 2012. Luke's parents are Brian and Kim Stutsman of Bath, Pa.

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

ABERNATHY REPRESENTS CARDINALS AT WHITE HOUSE

Joe Abernathy, ME'77, vice president of stadium operations for the St. Louis Cardinals, represented the team when it was recognized for its green efforts by the White House in July. He was featured at the Washington event that celebrated sports and sustainability. White House officials said the Cardinals have cut stadium energy use by 24 percent and are heading a national effort to reduce waste, increase recycling and use more renewable energy.

1977

Emmett R. Redd, Phys, MS Phys'79, PhD Phys'86, is working on a three-year National Science Foundation grant with Drs. Steven Younger at Missouri State University and Hava Siegelmann at the University of Massachusetts Amherst titled "Super-Turing Computation and Brain-Like Intelligence."

John Stutsman, EE, see "Future Miners," left.

1978

Glenford A. Newtown Jr., MS EMgt: "I retired from federal civil service the end of July 2012 with 41 years, three months and 27 days total service with the U.S. Department of Energy (this includes six years, three months and 21 days of active duty with the U.S. Army)."

Dave Scharf, ChE, was named vice president of strategic planning for ONEOK Inc. and ONEOK Partners LP.

1979

William B. McNally, ME, reports that his daughter, Hannah, will graduate from S&T as a mining engineer this spring. She is also the sister of **Rebecca McNally**, BAdm'11, and granddaughter of the late **John McNally**, MS EMgt'79.

Gregory L. Wayne, EE, see note under **Kathie Rupert-Wayne**, GGph'86.

1980

Jim Solari, CE, see "Future Miners," left.

1981

Scott E. Black, EE, was promoted to senior technical fellow with The Boeing Co. It is the company's highest technical position.

1982

Joe Gillardi Jr., ME: "I had a lot of fun with my 4-year-old grandson at the Missouri S&T Homecoming car show. We heard the university marching band and gave Joe Miner a big high-five."

Kenneth B. Horrall, PhD GGph: "I am very busy prospecting for petroleum in the Illinois Basin petroleum province. I work with three companies: Deep Rock Energy Corp. in Kinmundy, Illinois; Ceja Corp. in Tulsa, Okla.; and Henderson Exploration in Dallas.

1983

Kenneth D. Cochran, MinE, was elected senior vice president of operations for Arch Coal Inc. by its board of directors.

Mark Alan Cook, CE: "Both my kids are in college now. These modern dorms are so cushy — nothing like the old TKE house at Rolla."

1984

William “Andy” Chambers, ME, is senior vice president for student development at Missouri Baptist University and recently released his first book, *Exemplary Life: A Theology of Church Life Acts*.

1985

John Joseph Stansfield, Math, reports that he continues to teach at the University of Missouri-Columbia in the department of finance. He’s an enthusiastic Boy Scout leader and has risen to the national level of volunteerism. He says his strong and handsome sons are growing up and that his wife, Julie, never ages.

1986

Rob Leibrandt, ME, retired from the Office of the Under Secretary of

Defense for Acquisition, Technology and Logistics and joined the Camcode division of Horizons Inc. as a senior market manager.

Kathie Rupert-Wayne, GGph, continues to work at Ottawa University as a technology specialist. Both children have jobs in Boston. She and her husband, Greg, enjoy living in the country outside of Overland Park, Kan.

1987

James David Hart, ME, reports that his daughter, Rachel, is studying nursing at the University of Tennessee-Knoxville.

Cynthia Sue Weber, EMgt: “I have been teaching for 13 years. I teach industrial tech. I want to be a positive role model for girls to get into engineering and think middle school is

the perfect age to start working with them. I have a LEGO robotics team that competes with high schools and middle schools in our area and wish more girls would get involved in it. My son, **Zachary Webb, ME’11,** graduated from S&T. We are carrying on the tradition — my dad graduated from MSM in 1958.”

1988

Wyndham Whynot, Hist, was awarded tenure at Livingstone College. He is an associate professor of history.

1990

Jason Carter, MetE, recently hired two new employees at his company, Aegis Strategies LLC. In August, Aegis Strategies was selected

LIKE FATHER, LIKE SON



Trevor Wiggins, ME’96, switched from professional racing to drag racing so he could bring his wife and kids along and get them involved in the sport.

Featured in the July 2012 issue of *Drag Illustrated* magazine, Wiggins says the people who participate in motorsports are the type of people — smart, hardworking and ethical — that he wanted his kids to be raised around.

Wiggins’ son, 6-year-old Grady, proved he’s got his dad’s racing gene in October when he made his driving debut at the Music City Quarter Midget Racing Association track in Nashville, Tenn. Grady set a new track record for the fastest lap by a novice and, after missing the start, came from the back of the pack to win the main race.

HISTORIAN WINS STATE BOOK AWARD

Petra DeWitt, Hist’96, an assistant teaching professor in history and political science at Missouri S&T, received the 2012 Missouri History Book Award from the State Historical Society of Missouri in November for her book *Degrees of Allegiance: Harassment and Loyalty in Missouri’s German-American Community During World War I*. The book was published by Ohio University Press in April 2012.



◀ **Breck R. Washam**

ME’90

Breck R. Washam is in the second year of his term as treasurer for the Missouri Society of Professional Engineers. He is associate vice president at Burns & McDonnell Engineering Co. and general manager of the firm’s St. Louis regional office.



◀ **Neil S. Brady**

CE’95

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

ALUMNI-FOUNDED GAMING STARTUP GETS SUPPORT

The founders of IDC Projects, a gaming company started by three S&T alumni, stepped up their game last fall by getting an infusion of capital from two St. Louis investors. The firm was one of 15 St. Louis-area startup companies to win \$50,000 from Arch Grants to further develop the business. Arch Grants also provides free legal and accounting help, plus access to angel investors.

IDC raised another \$50,000 from Capital Innovators, a technology accelerator fund based in downtown St. Louis.

IDC Projects is a gaming and mobile app firm founded in 2008 by then-Missouri S&T students **Michael Orlando**, IDE'09, EE'10, MS EMgt'12, **R.J. Miller**, IDE'10, and **Colby Hall**, EMgt'09, MBA'10. The firm released its latest mobile game, Motocross Sniper, a virtual paintball app, last fall. The company's first product was a free iPhone app that counts down the number of days until the next Best Ever St. Pat's celebration. That app was created in 2008, in time for the 100th anniversary of St. Pat's.

For more information about the company, visit idcprojects.com.

as the provider of health information technology consulting services for the state of Missouri.

Doug Oglesby, AE, was named commander of a new program office for the Navy that will manage the planning and procurement of the USS *John F. Kennedy* (CVN 79) and other future warships of the Gerald R. Ford class, which represents the next-generation class of aircraft carriers.

1992

Steve Starwalt, CE, see "Miner Unions," at right.

1995

Joe Kvetensky, ChE, MS EnvE'97, was inducted into the Missouri S&T Hall of Fame for basketball.

Jeff Lueddecke, AE, MS SysE'08, see "Future Miners," page 35.

1997

H. Joseph Dickerson, CE: "I returned to Sidcock Group in 2009 and now

also have a serious hobby training my bird dog."

1998

David B. Tag, CE: "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."



◀ **Paul Owen** MS EMgt'95

Paul Owen, a colonel in the U.S. Army Corps of Engineers, assumed command of its New York District in September.



◀ **Joel Weinhold** GeoE'98

Joel Weinhold was promoted to manager of Geotechnology Inc.



◀ **Angela (Adams) Franklin** CE'07

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

1999

Andrew John Rich, GGph, is senior geologist with Occidental Oil and Gas Corp.

2000

Brandon Nicholas Ault, ME, see "Future Miners," page 35.

Jun Fan, PhD EE, is one of five Missouri S&T faculty to receive the 2012 Faculty Excellence Award. The award recognizes excellence in teaching, research and service.

Ann (Papke) Schmidt, EMgt, see "Future Miners," page 38.

Jeremy S. Strohmeyer, GGph, MS GGph'01, joined Geotechnology Inc. as project manager of the firm's geophysics group in Overland Park, Kan.

2001

Tim Schmidt, CE, see "Future Miners," page 38.

2002

Stephen T. Peterson, MS CE: "My wife, Julie, and Ella, 5, Eliza, 3, and I are all doing well in West End, N.C."

2003

Mathew Coffman, AE, see "Future Miners," page 35.

Alexandria Merritt, ME, was promoted to continuous improvement consultant for General Mills and relocated to its headquarters in Minnesota.

Benjamin Rhew, ECE, was named a Java developer for DataServ in St. Louis.

Justin Wylam, EE, see "Future Miners," page 38.

2004

Colleen (Fox) Coffman, ME, see "Future Miners," page 35.

2005

John Keeven, CE, see "Future Miners," page 35.

2006

Elizabeth Cudney, PhD EMgt, is one of five Missouri S&T faculty to receive the 2012 Faculty Excellence Award. The award recognizes excellence in teaching, research and service.

Tricia Mattson, NucE, MS NucE'09, MS EMgt'09, see "Miner Unions," at right.

Courtney Privett, CerE, see "Future Miners," page 35.

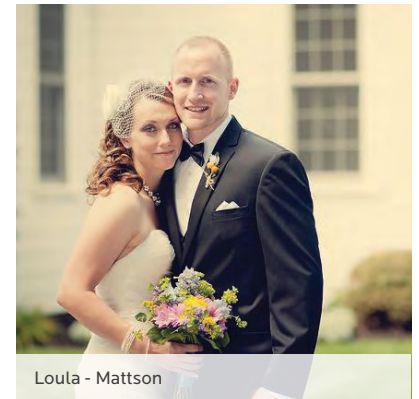
Kira (Bluebaum) Wylam, CE, see "Future Miners," page 38.

2007

Aaron Jackson, CSci, ECE, see "Future Miners," page 35.

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

MINER UNIONS



Loula - Mattson

Matthew Loula, NucE'08, and **Tricia Mattson**, NucE'06, MS NucE'09, MS EMgt'09, were married on Aug. 17, 2012, at the Chapel in Niles, Mich. The couple lives in Plainfield, Ill.

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



Starwalt - Schaefer

MARRIAGE PROPOSAL MAKES NATIONAL NEWS

Two former S&T cheerleaders made the national news last fall thanks to a Homecoming marriage proposal caught on video that went viral.

Band members, who traditionally call out requests of the cheer squad, yelled to the group of alumni on the sidelines, "Hey cheerleaders, we want to see a marriage proposal." The cheerleaders holding **Tara Biggers**, Phys'09, aloft spun her around to face her boyfriend of six years **Chris Balven**, BAdm'07, who was also held aloft, on bended knee. She accepted the proposal to the marching band strains of "Hey Baby."

Erica Long, CE'03, a senior academic advisor in mechanical and aerospace engineering and S&T cheer and dance coach, filmed the proposal and posted the video to YouTube. By Thanksgiving, the video had been viewed more than 13,000 times.

Late in October, a cable news program called *Right This Minute* picked up the story. The video aired along with an interview with Biggers and Balven. But the story grew. It aired on the ABC Television program *Good Morning America* on Nov. 19, and later that week, was picked up by CNN.

Balven said proposing to Biggers during the football game, while cheering, seemed natural.

"That's how we met," Balven told *Right This Minute*. "I thought it would be kind of a cool idea to get the engagement to happen there." The cheerleaders who assisted with the proposal are all alumni the couple cheered with in college.

Watch the video at bit.ly/marriagecheer.

MAGNUS NAMED EXECUTIVE DIRECTOR OF AIAA



On Oct. 22, 2012, former NASA astronaut **Sandra Magnus**, Phys'86, MS EE'90, became executive director of the American Institute of Aeronautics and Astronautics. AIAA is a 35,000-member technical society focused on the global aerospace profession.

Magnus, who lived aboard the International Space Station for four months, was one of four astronauts to fly on the space shuttle program's final flight aboard *Atlantis* in July 2012. Watch a video interview with Magnus and two other astronauts who graduated from S&T as they share their spaceflight memories at bit.ly/spacememories.

ENGINEERING NATURALLY

Jacquelyn Nagel, EE'05, MS MfgE'07, draws inspiration from nature in her engineering research. She is working to use the same mechanism that makes plants and animals react to stimuli to create an engineered device that can accomplish similar tasks. Her work earned her a spot as one of the 2012 New Faces of Engineering chosen by the National Engineers Week Foundation.

Nagel, an assistant professor of engineering at James Madison University in Harrisonburg, Va., was nominated by the Institute of Electrical and Electronics Engineers (IEEE) and was featured in the organization's quarterly journal in September.

2008

Matthew Loula, NucE, see "Miner Unions," page 41.

2009

Tyler L. Johnson, BSci, Hist: "I earned a master's degree in history at Missouri State University in May 2012, and accepted a teaching position in Oklahoma City. While at Missouri State, I was a graduate teaching assistant. My paper, "Air Bridging Freedom," The Berlin Airlift: Remembering the Blockade of a City and the First Victory in the Cold War,' won the 2012 Best Graduate Essay in History Award. I also presented the paper at the Mid-America Conference in History in September."

2010

Joshua McDowell, NucE, is on deployment to Kuwait. He is married to **Catherine J. Luecke-McDowell**, GeoE'12.

Michelle Puzach, ArchE, is working on a graduate certificate through S&T.

2012

Catherine J. Luecke-McDowell, GeoE, see note under **Joshua McDowell**, NucE'10. ■



◀ **Elizabeth (Hamby) Duvall** MS EMgt'08

Elizabeth (Hamby) Duvall was elected to a one-year term on the board of directors of the Executive Committee of the Missouri Society of Professional Engineers. She is the aviation program manager for the Missouri Department of Transportation.



◀ **Dylan Ream**, Arch'09, CE'09

Dylan Ream joined ARCO Construction Co. Inc. as a project manager.

MEET JOHN EASH

John F. Eash, AE'79, MS EMgt'90, director of F/A-18 production operations for the Boeing Co. in St. Louis, began his two-year term as president of the Miner Alumni Association in October. Missouri S&T Magazine staff sat down with him to ask a few questions.



What is your vision for the association?

The Miner Alumni Association will continue to be a growing, thriving organization that is positioned well to support alumni, students, faculty and staff, and the Rolla community.

What do you hope to accomplish during your presidency?

It's really all about what our association will accomplish. We aligned our committee structure to support our strategic priorities, with great committee leaders and members assigned to each. Over the next two years, they will accomplish great things — increasing our financial giving, strengthening our alumni sections, and improving communications with campus organizations and other constituents. I also look forward to increasing the number of active Miner Alumni Association members and the completion of the Hasselmann Alumni House.

What do you feel is the most important part of the alumni-university relationship?

The most important aspect of our alumni-university relationship is the shared responsibility of helping our students succeed during their college careers and beyond through financial assistance, career counseling, recruiting, mentorship and academic tutoring, just to name a few. When our students succeed in college and in business, it strengthens our reputation as a premier technological research university we can all be proud of.

Why should young alumni get involved with the association?

The ability to stay connected with old friends and make new ones, build professional networks with fellow alumni, and feel the pride that comes with giving back financially or through volunteering time to an organization that has helped many students — some that otherwise may not have graduated from S&T. ■

MINERS REMEMBERED

Missouri S&T Magazine will announce deaths when information is submitted by an immediate family member or published in a newspaper obituary. Notification of deaths that have occurred more than two years before the date of publication will not be published unless a special request is made by a family member. Yearbook photos, if available, will be included for alumni when families submit obituary information. Obituary information on alumni spouses will be printed only if the alumnus/alumna specifically requests that we print it.

John W. "Jack" Gardner II

MinE'41

John W. "Jack" Gardner II was a member of Sigma Nu fraternity and served as a lieutenant commander in the U.S. Navy during World War II. He retired from Gardner Denver. He enjoyed duck hunting and was a member of Ducks Unlimited. (Aug. 5, 2012)



◀ Oscar M. Muskopf

ChE'42

Oscar M. Muskopf worked for Shell Oil Co. for 30 years and was founder and president of Roxana Machine Works. He was active in his church and enjoyed volunteering for Habitat for Humanity. (Aug. 25, 2012)



◀ Walston Chubb

MetE'48, MS MetE'49

Walston Chubb worked at Battelle Memorial Institute and then joined Westinghouse Electric Corp., retiring after 20 years. He established the Walston Chubb Award for Innovation to honor and promote creativity in science and engineering at S&T. (July 31, 2012)



◀ Kenneth C. "Pete" Petersen

MinE'49

Kenneth C. "Pete" Petersen was a member of Triangle fraternity and served in the U.S. Navy Air Corps. He worked for St. Joe Lead Co. in Belmont, N.Y., and Bonne Terre, Mo., and C.E.S. Truck Lines in Crystal City, Mo. He enjoyed big band music and dancing. (July 1, 2012)



◀ Stanley Dolecki

CE'50

Stanley Dolecki 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)

1933

Charles L.W. Hunze, ChE,
MS ChE'34 (Aug. 7, 2012)

1938

Collins M. Burton, NDD
(Aug. 28, 2012)

1939

Marshall V. Jamison, ChE
(April 21, 2012)

Lawrence A. Roe, MinE
(Sept. 24, 2012)

1943

Matthew J. Kerper, CerE,
MS CerE'47 (June 19, 2012)

Charles S. McCormick, ME
(July 20, 2012)

1947

Donald W. Fink, ME
(Dec. 22, 2011)

1948

Robert S. "Bob" Stryker,
MetE (Aug. 4, 2012)

1950

Raymond C. Avery Jr., MinE
(Oct. 16, 2012)

Gerard F. Hofstaedter Jr.,
MS CE (Aug. 13, 2012)

William P. Hughes, CE
(Oct. 5, 2011)

James C. "Big Jim" Yeager,
GGph (Aug. 26, 2012)

1951

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

Truman E. McClard, PetE
(Sept. 15, 2011)

Warren D. Roach, CE
(March 23, 2012)

Robert O. Tuegel, ME
(June 28, 2012)

1952

Gedale D. "Dale" Davis,
MetE (Oct. 13, 2012)

Ronald A. Hoffmann, CE
(May 16, 2011)

Peter J. Lucido, CerE
(July 6, 2012)

Roger J. Schoepfel, PetE,
MS PetE'59 (Oct. 2, 2012)

1953

Charles Almstedt, NDD
(Aug. 28, 2012)

1954

Gordon B. French, GGph,
MS GGph'56 (July 3, 2012)

1955

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

1956

James J. Wofford, ME
(May 5, 2012)

1957

Richard L. McGee, EE
(Dec. 10, 2011)

1958

William R. Field, EE
(Aug. 30, 2012)

Allan F. Johner, ME
(Oct. 3, 2012)

Richard C. O'Dell, EE
(May 8, 2012)

Kenneth R. Schultz, ChE
(Feb. 18, 2012)

1959

William E. Hanneman, EE
(June 11, 2012)

1960

Oliver E. Harris, PetE
(Sept. 30, 2012)

Joel J. Jurgens, GGph,
MS GGph'62 (Oct. 23, 2011)

Jimmie J. Justus, EE
(Sept. 22, 2012)

1961

Neil R. Hopkins, ME
(Jan. 20, 2012)

Claude L. Woodard,
MS MetE, PhD MetE'70
(Aug. 6, 2012)

1964

Matthew J. Burkart,
CE (Sept. 18, 2012)

Kenneth B. Krueger,
NDD (Oct. 14, 2012)

Larry J. Wooldridge, MetE
(Feb. 8, 2012)

1965

Daniel K. Goodman, EE
(July 6, 2012)

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

Renny R. Nichols,
MS GGph (July 26, 2012)

1966

John A. "Jack" Lawrence,
ME (Sept. 20, 2012)

1968

Galen M. Strain,
MS Tch Phys (July 5, 2012)

1970

Robert G. "Bob" Brown Jr.,
EE (Aug. 5, 2012)

Ossean "Gene" Pierson,
MS Tch Math (Aug. 31, 2012)

James W. Turentine, EE
(July 5, 2012)

1971

David D. Schaefer, ME
(July 31, 2012)

1973

Charles C. "Chuck" Fuller,
Math (Sept. 10, 2012)

1974

**Donald G. "Hazard"
Lawson**, CSci
(Aug. 26, 2012)

1979

Dan M. Chilcutt,
PDD EMgt (Aug. 20, 2012)

1980

Randall L. Barnard, PetE
(Sept. 8, 2012)

(continued on page 47)



◀ **John A. "Jack" Hirner** EE'51

John A. "Jack" Hirner served in the U.S. Navy during the Korean War and retired as a senior engineer with AT&T in 1998. He was active in his church and in his community. (Sept. 22, 2012)



◀ **George William "Bill" Sullivan** MetE'51

George William "Bill" Sullivan was a U.S. Navy veteran of World War II, serving in the Pacific theatre. He retired from the foundry industry as a metallurgical engineer in 1985. (Aug. 23, 2012)



◀ **Thomas E. Buder** ME'52

Thomas E. Buder served in the U.S. Navy during World War II. He worked for Olin Corp.'s Brass Mill for 32 years. He enjoyed fishing and tennis. After retirement, he delivered meals to senior citizens for several years. (July 4, 2012)



◀ **David J. Davis** CE'55

David J. Davis 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)



◀ **James M. Murphy** ME'56

James M. Murphy was captain of the football team and was a member of Kappa Sigma fraternity. He was an Army ranger and a paratrooper during the Korean War. A realtor specializing in land and new housing developments, he opened a neighborhood pub with his daughter in 1980 that is still in business. (Aug. 3, 2012)



◀ **Peter N. "Panayotes" Yiannos** ChE'56

Peter N. "Panayotes" Yiannos was born in Greece and came to the United States through the Truman Doctrine. He earned master's and Ph.D. degrees from Lawrence University and worked for Scott Paper Co. for more than 35 years, retiring as vice president of technology. (July 2, 2012)



ROLLIE R. JOHNSON

Rollie R. Johnson, ME'62, died on Aug. 1, 2012. He was a member of Pi Kappa Alpha fraternity and served as a lieutenant in the Army's First Infantry Division. Mr. Johnson retired as founder, president and CEO of Rollie Johnson Inc.; CEO and co-founder of the Systems Enhancement Corp.; and CEO and founder of Electronic Support Products — all in the St. Louis area. He and his four sons, who are also S&T alumni, developed a company that provides software for uninterruptible power supply for computers and a second company to distribute related hardware. He was a member of the Order of the Golden Shillelagh.

DR. TOMLINSON FORT JR.

Dr. Tomlinson Fort Jr., former provost and professor of chemistry and chemical engineering, died Sept. 13, 2012, in Franklin, Tenn. He was a research chemist at DuPont Co. before beginning his nearly 40-year academic career. Dr. Fort was on the faculty of Case Western Reserve University, Carnegie Mellon University and California Polytechnic State University before joining Vanderbilt University in 1989. He held leadership roles in the American Chemical Society and was one of the founders of the Sigma Chi chapter at S&T.

DR. EDWARD MERLE RANEY

Dr. Edward Merle Raney, CE'64, MS EMch'66, PhD EMgt'90, died on Feb. 13, 2012. He 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.



◀ Robert G. "Bob" Fuller

Phys'57

Robert G. "Bob" Fuller earned master's and Ph.D. degrees in physics from the University of Illinois and taught at the University of Nebraska-Lincoln for 36 years. A pioneer in physics education, he won many teaching awards and was one of *Insight* magazine's 10 best college professors in 1987. (April 9, 2012)



◀ Jerrold Myles Alyea

MetE'60, MS MetE'68

Jerrold Myles Alyea was president of Pi Kappa Alpha fraternity and was an Army Reserve company commander. At Olin Corp., he received two patents for composite coining metals that were used as the replacement for silver in coins by the U.S. Treasury. He retired as president of Complete Holdings Inc. in 2000. (Oct. 30, 2012)



◀ Gerald W. "Jerry" Bersett

MetE'65

Gerald W. "Jerry" Bersett was a member of Phi Kappa Theta fraternity. He retired from Olin Corp. in 1995 as president of the company's Winchester Group. He then served as president, chief operating officer and member of the board of directors for Sturm Ruger and as president of Blount's Sporting Equipment Group. (Aug. 12, 2012)

C. Parker "Punch" Bennett

CE'69

C. Parker "Punch" Bennett 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.

Arlan G. Piepho

ME'70

Arlan G. Piepho started working at United States Steel Corp. as a student and held several leadership positions with the company. In 1986, he joined Gerdau Ameristeel as melt shop superintendent. In 2003 he became vice president and plant manager of the company's Knoxville Mill.



◀ Stanley E. Grabski

CE'71

Stanley E. Grabski 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)

1981

Daniel B. Barnes, GeoE
(March 26, 2012)

1983

Russell Lee Chastain, EMgt
(July 13, 2012)

1984

Craig R. Smith, CSci
(Sept. 6, 2012)

1985

John William Boyhan,
MS EMgt (Aug. 31, 2012)

John E. Pfannkuch, ME
(Aug. 31, 2012)

1987

Storm Tate Russell, Hist
(Aug. 21, 2012) ■

FRIENDS

Shirley Haskin Andrews, wife of the late Dr. Bill Andrews, former civil engineering professor. (July 12, 2012)

Homer Briggeman (Sept. 22, 2012)

Raymond W. Cain (Sept. 12, 2012)

Kathleen A. Coco, wife of Matteo Coco, CE'66 (Oct. 18, 2012)

Wallace C. Craig, retired finance officer at S&T (Sept. 6, 2012)

Riley Godfrey (Oct. 15, 2012)

Nancy Goetemann, wife of Edwin C. Goetemann, MetE'44 (Feb. 16, 2012)

Gordon Matlock (April 27, 2012)

Lloyd E. McCoy, retired equipment coordinator in the athletic department (Sept. 14, 2012)

Gary Ozment (Oct. 6, 2012)

Lisa Louise Persicke (Aug. 19, 2012)

Ernest Reed (July 4, 2012)

Ruth Ann Renick, wife of Murray C. Renick Jr. (Oct. 26, 2012)

Grace A. Sexauer, wife of the late Bernard J. Sexauer, MetE'48 (Dec. 20, 2011)

David Lee Shackelford (Aug. 9, 2012)

Virginia Ann Telthorst, wife of the late Harold M. Telthorst, CE'49 (Sept. 26, 2012)

Mary Ann Teter (Dec. 20, 2011)

James L. Turner (Oct. 21, 2012)

Vienna "Vi" Tyson (Oct. 24, 2012)

Judith M. Wollam (April 17, 2012)



DR. ALFRED CARL "A.C." SPRENG

Dr. Alfred Carl "A.C." Spreng, professor emeritus and former chair of geology and geophysics, died on Oct. 19, 2012. He joined the S&T faculty in 1950, retiring after 35 years. During World War II, he was sent to Denison University in Ohio to train as a meteorologist for the U.S. Army Air Forces Weather Service. He reported the data from the campus weather station to the National Weather Service in Springfield, Mo., daily. At S&T, Dr. Spreng was in charge of the maps the geology faculty and students used. When the maps moved to the Curtis Laws Wilson Library, the space was named the A.C. Spreng Map Room.



JOHN D. POWELL

John D. Powell, NDD'47, died on Sept. 1, 2012. Former president and co-owner of Powell's Lumber and Home Center in Rolla, he supported the Miner football program, was a St. Pat's Honorary Knight and was Honorary St. Pat. Mr. Powell was a cadet midshipman in the U.S. Merchant Marine Academy – U.S. Naval Reserve in World War II. He was a leader in the Rolla community, as well as Phelps County and Missouri State Republican committees, and was involved with the Missouri Conservation Commission.



PETER C. "PETE" KINYON

Peter C. "Pete" Kinyon, a supporter of Missouri S&T, the Miner football program and the Miner Alumni Association, died on Nov. 13, 2012. Mr. Kinyon and his late wife, Betty Jane, gave \$250,000 in support of the football program. In recognition of his generous gift to the Hasselmann Alumni House, the Grand Hall will be co-named in his honor.

MARGARET OLCOTT AND FAMILY: BUILDING A LEGACY



Top: Olcott's daughters Janet Olcott and Barbara Malone with Wayne Huebner, CerE'82, PhD CerE'87, and Chancellor Cheryl B. Schrader at the dedication of the Eugene L. Olcott Metallography Laboratory in McNutt Hall. Bottom left: Margaret and Eugene, MetE'40, Olcott. Bottom right: Olcott in 1940.

During the final weeks of his life, Eugene L. Olcott, MetE'40, decided he wanted to give something back to the school that had prepared him for a successful career. "He wanted to give something tangible that would carry his name and be of use to the students," says his widow, Margaret Olcott.

So following her husband's death in 2009, Margaret and their three children — daughters Janet Olcott and Barbara Malone and son Bruce Olcott — contacted Missouri S&T to find out how they could honor Eugene's wishes.

Janet learned from **Wayne Huebner**, chair of materials science and engineering, that her dad was originally an electrical engineering student who

"switched majors to metallurgical engineering because the equipment was better."

"Janet thought that an equipment gift would be the most appropriate way to honor the memory of her father," Huebner, CerE'82, PhD CerE'87, says.

The metallography laboratory in Huebner's department was overdue for an upgrade. Students were

using equipment from the mid-1980s — when the lab and its home building, McNutt Hall, were brand new — to polish and prepare samples for microstructural analysis with the department's scanning electron microscope. "In order to prepare samples for analysis, they have to be polished to a mirror-like finish," Huebner says.

Half of the lab's 12 polishing stations no longer worked and students had to juggle their schedules to find time to work on their samples.

The \$135,000 gift from Margaret Olcott replaced them all with a full set of state-of-the-art metallography equipment. It also paid for two automated polishers, which are used to prepare more difficult-to-polish materials.

Last August, Janet Olcott, Barbara Malone and their families attended the formal dedication ceremony for the Eugene L. Olcott Metallography Laboratory in McNutt Hall. Margaret was unable to attend the event.

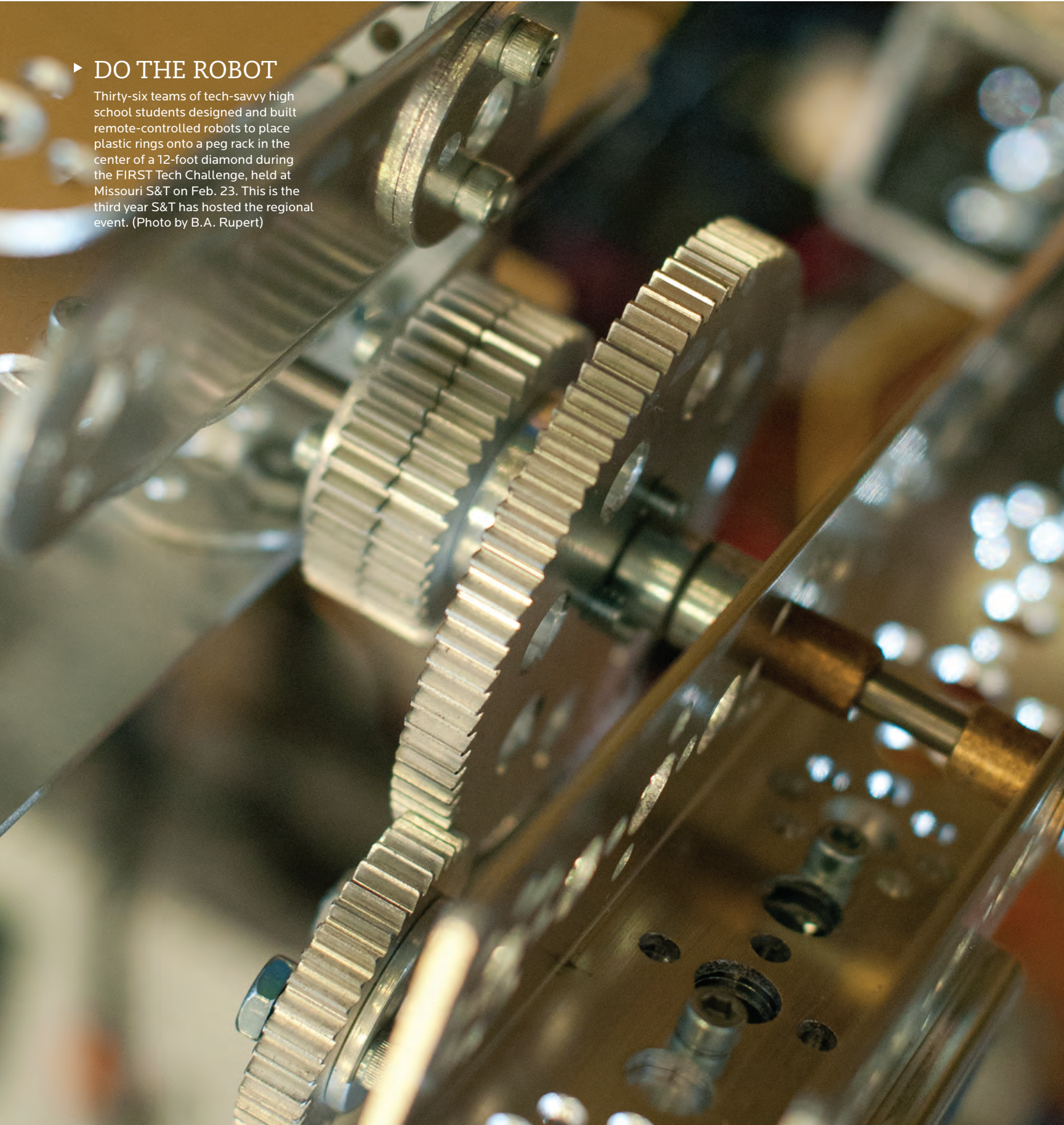
"This gift will ensure that future generations of metallurgical and ceramic engineering students have the very best training in preparing samples for microstructural analysis," says Huebner. "I'm very grateful to the Olcott family for their generosity."

"The dedication was very moving," says Janet. "The passion that the faculty and students share for their subject matter and their school is overwhelming. The reception was lovely, and we were particularly impressed by all of the time the chancellor (**Cheryl B. Schrader**), faculty and students dedicated to us."

A native of St. Louis, Eugene L. Olcott worked as an engineer for the Navy and later for Atlantic Research Corp. as a high-temperature materials engineer on aerospace projects. In 1973, he and Margaret moved to a farm in Jefferson County, W. Va., to raise Angus cattle. He donated a 90-acre perpetual conservation easement from his farm on the Potomac River to the Potomac Conservancy and the Jefferson County Farmland Preservation Bureau. ■

▶ DO THE ROBOT

Thirty-six teams of tech-savvy high school students designed and built remote-controlled robots to place plastic rings onto a peg rack in the center of a 12-foot diamond during the FIRST Tech Challenge, held at Missouri S&T on Feb. 23. This is the third year S&T has hosted the regional event. (Photo by B.A. Rupert)



MISSOURI S&T

Miner Alumni Association
1200 N. Pine St.
Rolla, MO 65409-0650

NONPROFIT ORG.
U.S. POSTAGE PAID
LIBERTY, MO
PERMIT #143

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

THE NEXT GENERATION OF MINERS
SPRING 2013 VOL. 87 NO. 1
MAGAZINE.MST.EDU

ADDRESS SERVICE REQUESTED
*Parents: If this issue of Missouri S&T Magazine is
addressed to your son or daughter who has established
a separate permanent address, please notify us of the
new address: 573-341-4145 or alumni@mst.edu.*

REDISCOVER **ROLLA**

THE TASTES, TREASURES AND TRADITIONS OF

DURING

MINERFEST

A

JAM-PACKED JUBILEE

CELEBRATING

OF THE

THE
FORWARD THINKING

**GENEROUS
BENEFACTORS**

WHO MAKE

MISSOURI S&T

A PHILANTHROPIC PRIORITY EACH YEAR.

APRIL 17 - 21, 2013

THE WEEK'S EVENTS
INCLUDE:

**WOMAN OF THE YEAR
LUNCHEON**

**BERTELSMEYER HALL
GROUNDBREAKING**

MINER ALUMNI ASSOCIATION
**BOARD OF DIRECTORS
MEETING**

**BOARD OF TRUSTEES
MEETING**

**OGS
ANNUAL WEEKEND**

**BATTLE OF THE BRAINS
SCHOLARSHIP BANQUET**

**ACADEMY
MEETINGS**