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Common Ground Newsletter Fall 2022

Missouri University of Science and Technology

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Common Ground

Civil, Architectural and Environmental Engineering



Summer camps returned in person

page 13

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S&T
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From the Chair



I am excited to share stories now that our classrooms are full, organizations are active, and teams are back in action competing. Our teams lost some continuity of membership, but rebounded strong. The value of leaders was evident as teams with experienced leaders weathered the pause and excelled. A great example was our Steel Bridge Team. They competed in 2021, albeit virtually, and returned with many experienced leaders. In 2022, the team earned their fourth consecutive Midwest regional championship and placed 13th overall nationally at Virginia Tech (pg. 4) — the highest national finish in more than 15 years. Missouri S&T's Solar House Team competed and had a stellar finish with their virtual design of the Deaf Equality, Accessible Future (DEAF) Home in the national DOE Suburban Single-Family Housing Division (pg. 7). Student organizations excelled too as the Missouri S&T ASCE student chapter received Region 7's Distinguished Chapter Award and the national ASCE Significant Improvement Award for 2022. Our Miners demonstrated their drive and perseverance yet again!

We also returned to in-person summer camps with Jackling Introduction to Engineering (pgs. 13-15) and collectively hosted more than 350 students at S&T. Summer camps are a great way to encourage and promote STEM careers and our reputation as a “destination of choice” for students seeking innovative programs and opportunities.

Regardless of challenges, we are dedicated to educating and training “street ready” engineers, and that expectation and drive did not change through the pandemic. In fact, it was given a boost from Miner alumni in 2021. The Laboratory Education Enhancement Program (LEEP) helped restore function in some of our teaching labs with more than \$100,000 in support. The effort enhanced the Construction Materials Lab (CE/ArchE 3116) and the Environmental Engineering Labs (CE/EnvE 2601) so we could again do all our planned experiments. The program continues to support our hands-on education and to rehabilitate our Water Resources Lab in 2022-23 (pg. 33). Our commitment to education at S&T was again acknowledged, with our civil engineering undergraduate program ranked #31 nationally by *U.S. News*, the highest-ranked engineering program in Missouri. Employers also embraced our training of engineers, with graduate placement more than 95%, again leading the S&T campus. Our students are amazing!

We would also like to take this opportunity to celebrate our awesome alumni. We are particularly thrilled to share that **Marsia Geldert-Murphey**, MS CE'97 and Academy of Civil Engineers member, was elected as the ASCE President for 2024! She was elected in May, 2022, and represents our programs well in the international forum. We're also excited that newly inducted academy member **Kristen Leathers-Gratton** was selected as the state of Kansas Engineer of the Year (pg. 20). Marsia and Kristen and so many other Miner alumni and students maintain the legacy of doing amazing things and give us a lot to brag about in this edition of *Common Ground*. Without question, our students, faculty and alumni have faced challenging years and triumphed to finish 2021-22 strong. Here's to a bright future that will undoubtedly **Change the World!**

Please do not hesitate to contact me with questions and stay current with our activities on Facebook (facebook.com/MissouriSandTCaRE), Instagram ([sandtcaree](https://instagram.com/sandtcaree)), LinkedIn (linkedin.com/school/missouri-s-t-civil-architectural-and-environmental-engineering) and Twitter (twitter.com/SandT_CARe).

Joel G. Burken

Ph.D., P.E., BCEE, F.AEESP
(burken@mst.edu)

MARIA ALVARADO FINDING HER FIT



Photo by Michael Pierce, Missouri S&T

As a high school student, **Maria Alvarado**, ArchE'22, CE'22, says she never made time for clubs or extracurricular activities because she focused so much on academics. But when she joined Missouri S&T, she quickly realized she was around like-minded people who wanted to “solve problems and improve the world.”

“I think being a part of the student organizations was one of the best parts of my experience here,” says Alvarado, who earned bachelor’s degrees in architectural and civil engineering this past May from S&T. “I think that I have learned new things and gained valuable experiences that have helped me to grow into a better person.”

Alvarado, a St. Joseph, Missouri native, was a CAREE Senior Achievement Award recipient nominated by her classmates. She was also part of the archery club for her first few semesters on campus, but says she really found a place when she joined the Society of Hispanic Professional Engineers at S&T – she also served as society secretary.

“I love the people that I have met and learned from here, as well as the constant state of thinking and learning new things,” says Alvarado. “You can be super smart and excel in all your classes, but you really need people to share your experiences with and to help support each other.”

“I think being a part of the student organizations was one of the best parts of my experience here.”

— Maria Alvarado

Learn more about ways to get involved at Missouri S&T.
involvement.mst.edu

DESIGN TEAMS



Steel Bridge Team steelbridge.mst.edu

Missouri S&T's Steel Bridge Design Team's fourth straight regional title earned the Miners a place in a field of 34 collegiate teams at the national finals of the American Institute of Steel Construction's Student Steel Bridge Competition, held May 25-26 at Virginia Tech in Blacksburg, Va.

In the months leading up to competition, the team designed and built components for a scale-model bridge. The 2022 challenge was to design a wildlife crossing over a highway. During the competition, S&T's team constructed their 275-pound bridge in just over six minutes, after which the bridge underwent several load tests.



Bridges are scored on categories including weight, rigidity, construction speed and efficiency. Penalties are assessed for infractions like dropping bolts, holding two pieces of the bridge at once, or stepping over designated lines. The scores are based on dollar amounts, as they would be in submitting a formal bid, rather than a points system. This provides students experience in the accounting process involved in determining the budget for a real bridge project.

S&T's 13th spot overall was highlighted by their first place in cost estimating and a nearly 20% reduction in their assembly time. The Miners had the most accurate estimate of their bridge's performance, coming within 3% of their final overall score. Each team had to estimate how well their bridge would perform in each scenario before the load tests.

The Student Steel Bridge Competition is designed to supplement a civil engineering education with a comprehensive student-driven project experience from conception and design through fabrication, construction and testing. The project meets client specifications and optimizes performance and economy. The competition puts students in the center of real-world engineering issues such as spatial constraints, material properties, strength, safety, aesthetics and cost.

Steel Bridge Team
at the regional
competition at
Iowa State.



Concrete Canoe Team concretecanoe.mst.edu

Why build a concrete canoe? It's a fun way to develop a strong, light construction material. Lighter weight means less steel in your project and equates to cost savings.

2022 was a return to in-person events, but spring storms sweeping across Iowa State's campus cancelled the "does it work" phase. It was simply not safe to race.

Rules were issued by ASCE in the fall, and the Miners spent months evaluating

mixtures for strength. After a series of scale model tests and some practice mixes, the actual hull was formed in just one day. Named Calypso, the canoe had a bold pirate-ship theme.

The team used multiple colors of pigments in the structural mix, which contributed to their display score. The Miners earned first place in final product and fourth in technical presentation for a 10th place finish overall.



Concrete Canoe Team
at Iowa State with
alumna Shawna Erter,
GeoE'00, MS GeoE'13.

Engineers Without Borders (EWB) ewb.mst.edu



Atahuallani, Bolivia

The team is still working with the community in hopes of providing a latrine system to prevent further water contamination of farming and local streams still in-use by community members. They are currently researching alternative latrine designs. Upcoming plans are to return to the community in early August to evaluate the remote implemented water system and continue to push for designs that improve community health.

Deiz De Abril, Bolivia

The team is working with the community to educate them about the best ways to dispose of their waste, as it was observed that open defecation was not uncommon in this area. More houses are getting latrines so that waste doesn't leach into the groundwater and contaminate the aquifer. The work is in its early stages.



Solar House Team

solarhouse.mst.edu

The Solar House Team will be competing in a revised 2023 Design Challenge for which they have two options. Competition will bring forth some new challenges — the biggest being to produce an innovative design that addresses comprehensive building science, energy efficiency, indoor air quality, occupant experience, human health, optimized mechanical systems, embodied environmental impact, affordability, resilience and resource conservation.

Seasoned members of the team have graduated, so it is up to the younger members to guide the team (with help from the advisors, of course) in the next challenge. There will be plenty of open leadership positions for interested students in the fall.



Agua Fria, Ecuador

Team members evaluated potential sources of water and decided on designing a chlorinated gravity-fed pipeline distribution system from a local river with rainwater catchment systems on homes too distant or situated above the gravity-fed system. The team hopes to implement rainwater catchment systems on community members' homes in the near future.

Paraje Xecaxjoj, Guatemala

The team oversaw remote construction of a school, which was completed in fall 2021. They are now designing a sanitation system for the school and plan to travel to implement erosion control solutions for the site.



2022 DEAF Home

This home is a net-zero home that accommodated everyday needs of deaf individuals and others who might reside in the home. The acronym DEAF represents Deaf Equality, Accessible Future and is designed to sustainably, creatively and efficiently address the shortage of accessible housing for the deaf community.

2021 FLIGHT Home

This home earned second place in the U.S. Department of Energy's Solar Decathlon Design Challenge in the Single-Family Suburban Housing category. It represented a net-zero single-family housing project that combined a highly efficient and environmentally-friendly design with accessible technology to grant lower-limb veteran amputees with flight — or full mobility in their daily activities.



TOP 10

WAYS S&T IS SOLVING FOR SUSTAINABILITY

[NEWS.MST.EDU/2022/04/TOP-10-WAYS-ST-IS-SOLVING-FOR-SUSTAINABILITY](https://news.mst.edu/2022/04/top-10-ways-st-is-solving-for-sustainability)

1. SOLAR SHINES

S&T is home to six solar-powered houses designed and built entirely by Miners for international Solar Decathlon competitions. (CAR EE professors **Dr. Stuart Baur** and **Dr. Heath Pickerill** advise the team.) Our Solar Car Design Team has been showcasing sun power since 1993 and has won two national championships.

2. STUDENTS HOLD THE CURE

Long before ECO Miners, a group of students joined forces with local environmentalists to establish Rolla's first recycling center in 1972. The group, Citizens United to Restore the Environment, or CURE, included **1972 civil engineering graduates, Al Visintainer and Dave Wright**.

3. A MATTER OF DEGREES – AND CERTIFICATES

Two new degree programs – a bachelor's degree in environmental science and a master's degree in water science and engineering – are addressing the demands for environmentally focused education.

4. ENERGY AND ENVIRONMENT COME TOGETHER AT CREE

The Center for Research in Energy and Environment (CREE) focuses on solving issues related to environmental and economic sustainability and its research blends biological and physical systems involving emerging contaminants in natural and engineered systems.

5. INNOVATION, SUSTAINABILITY AND ARTISTIC EXPRESSION

S&T's Trashion Show inspired students to combine fashion with garbage to take sustainable innovation to new heights. Miners walked the runway in garments made of at least 90% reused and recycled materials.

6. SAVING THE MONARCHS

Dr. Niranjana Krishnan, an assistant research professor in biological sciences at S&T, recently published a study focused on the effects of several widely used insecticides and how these chemicals affect the different life stages of monarchs.

7. GET YOUR FEET WET

A new program titled "Getting your feet wet" is advancing geoscience education using water-based field experiences.

8. THE GREEN ROOF

The S&T Green Roof provides research and teaching opportunities. Most of the plants growing on the roof were chosen for their ability to thrive in direct sun and wind with limited water. The roof is divided into three sections, each covered with different roofing materials, which allow researchers to compare the water runoff control, water quality and thermal properties of each material.



9. CONSERVING ENERGY

S&T's geothermal energy project was expected to cut the university's annual energy use by 50%. At the end of the first year of operation, S&T saw a reduction of 57% in energy use. The project continues to trend toward sustainability reducing energy use by almost 60% each year.

10. SOLVING THE WORLD WATER CRISIS

S&T alumnus **Gary White**, CE'85, MS CE'87, founded WaterPartners. In 2009, the thriving organization merged with actor Matt Damon's non-profit, H2O Africa, to form Water.org. So far, White has been instrumental in transforming more than 600,000 lives in Africa, South Asia and Central America through better access to safe water and sanitation.



WEF STREAM CLEAN UP

The Water Environment Federation (WEF) finished up their water quality monitoring. Each semester, the group takes a trip to Little Piney Creek just outside of Rolla to assess the macroinvertebrates living in the creek and complete chemical assessments, such as dissolved oxygen concentrations, pH and conductivity.

While at the creek, they complete a visual survey to monitor streambank conditions, land use and water conditions. Through monitoring the physical, chemical and biological conditions of Little Piney Creek, WEF can ensure the health and safety of the creek, surrounding areas, and any living organisms that inhabit the creek.



The team submits their data to the Missouri Department of Natural Resources, which aids them in establishing baseline data for streams throughout Missouri, establishes long-term trends, and locates streams in need of professional follow-up monitoring.



Earth Day 2022



In April, CArEE students welcomed school-age children and visitors to campus during Earth Day to tie-dye t-shirts and share free herb sprouts in recycled pots. They assisted in educational booths, teaching others about sustainable materials and eco topics at S&T.

CArEE Spring Picnic



Miners celebrated the end of another semester at the spring department picnic. It rained most of the time, but that didn't stop the cornhole tournament or Jenga game held under the pavilion.

Thank you to Crawford, Murphy & Tilly for sponsoring the event. Our fall picnic promises to be the "Best Ever!"

CARE Seniors



Kudos to another group of Miners that completed Senior Design. Ten student teams applied teamwork and engineering principles to conceptualize and design a combined office space and warehouse for a bicycle company in Colorado. A big MINER THANK YOU to Brinkmann Constructors for serving as the mentors and the 'client' to the senior class of May 2022!



Miner Bear Seniors

Congratulations to our Miner Bears in the Missouri State University Cooperative Engineering Program in Springfield, Mo. We had one of the largest senior classes in recent program history with 95 students completing the Senior Design Course.



Graduate students honored

Three Ph.D. students from our department received CEC Dean's Ph.D. Scholar Awards. The awards involved a highly competitive two-tier selection process where each of the CEC departments independently selected up to three nominees for the college to consider. A committee comprising representatives from five CEC departments selected the winners.

Honorees from our department were:

- **Gasser Ali**, nominated by **Dr. Islam El-adaway**
- **Eslam Gomaa** (not pictured), nominated by **Dr. Mohamed ElGawady**
- **Yanping Zhu**, nominated by **Dr. Genda Chen**

Janke lands CoSIDA Academic All-District track & field honors



Nick Janke, a member of the men's track & field team, earned a spot on the College Sports Information Directors of America's Academic All-District team.

Janke graduated from Missouri S&T in May 2022 with a bachelor's degree in civil engineering and also had a strong career in the multi-event competitions as well as the high jump and long jump. At the 2022 GLVC Outdoor Championships, Janke finished third in the decathlon – he finished among the top three at all three conference meets he competed in at S&T – and added a fourth place showing in the high jump. He also recorded a second place finish in the heptathlon at the GLVC Indoor Championships in February.

A member of three GLVC championship teams (two outdoors, one indoors), Janke also finished the 2022 season with the Miners' second-best mark in the high jump of a career-best 6-7½. At the Dewey Allgood Invitational in April, he posted his career best in the long jump this season of 22-1¾.

RETURNING TO IN-PERSON SUMMER CAMPS

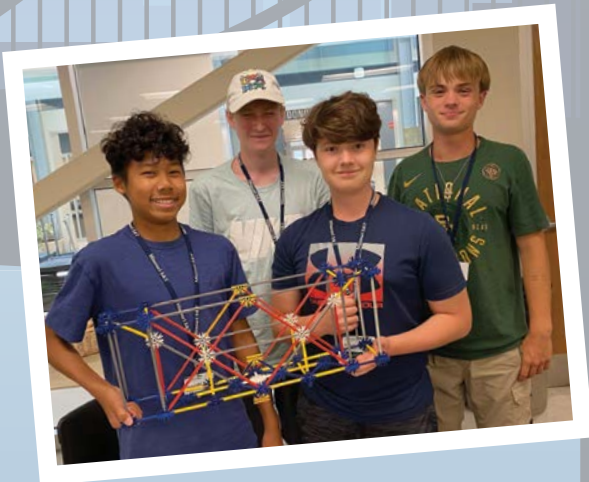
After two years of virtual and hybrid youth camps, Missouri S&T's in-person summer camps returned in June. Students in grades 10, 11 and 12 immersed themselves in our civil, architectural and environmental engineering activities as part of Jackling Introduction to Engineering Camp.



Design, build &
test bridges



Civil Engineering



Architectural Engineering

Delivering an experience for students to become aware of new possibilities and collaborate with world-class faculty and young minds eager to learn, explore and discover.

Envision,
construct &
evaluate towers





Collect, treat & clean water

Environmental Engineering



Giving students the opportunity to talk with faculty and students and check out our labs. Providing a slice of the college experience, so that when the time comes for them to apply it will be more familiar.



INTERNSHIPS

An internship or co-op experience might be your first real job. Most of these summer adventures come with longer working hours, lower income and working hard to climb the career ladder of your choice, but there are also many benefits like applying classroom knowledge and gaining valuable work experience to prepare you for the working world. CArEE was the first department at Missouri S&T to require experiential learning before graduating with a bachelor's degree. Take a look at some of our students adventures this year, many with CArEE alumni mentors.



Interned at Chariton Valley, a state-of-the-art telecommunications service in Northeast Missouri, while taking online summer classes and playing softball on the weekends.

Networking & Contacts



Logan Bowdish

Interned with Zahner — a company in Kansas City, Mo. that produces highly crafted architectural metalwork for artists and architects around the globe. Pictured above in front of the old Kansas City Star Building with a group of coworkers and to the left at the Leawood Church of the Resurrection, which is the largest Methodist Church in the U.S.

Hands-on Learning



Lillian Fuller

Interned with the City of Lenexa in Kansas as a traffic engineer learning about asphalt paving, overall road construction, road closure mapping and the physical process.



Interned with Gonzalez Companies, a midwestern civil engineering and construction management firm. Started by getting OSHA 10 certified and learning about Civil 3D; then experienced geotechnical engineering by visiting multiple drilling sites and classified soils, ran soil tests and recorded logs; spent time surveying in the field — surveying along Delmar Blvd. near Belleville, Ill., the Saint Louis Zoo and Anheuser Busch Brewery.



Megan Hake



Interned at CBB Transportation, a leader in the highly specialized fields of traffic engineering and transportation planning.



Gideon Plank & Alex Zarate



Brenan Pool

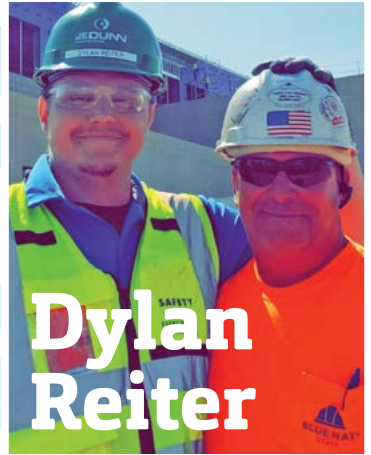


Interned as an architectural engineer for GBA Engineers out of their Denver office in the LifeSciences Division; worked on electrical designs and systems for pharmaceutical companies and healthcare manufacturing facilities.

Professional Confidence



Interned for JEDunn this summer on a hospital replacement project at Fort Leonard Wood. Dylan's dad, who also works for JEDunn, made a delivery to the construction site and he thought it was cool to share how JEDunn is a family company.

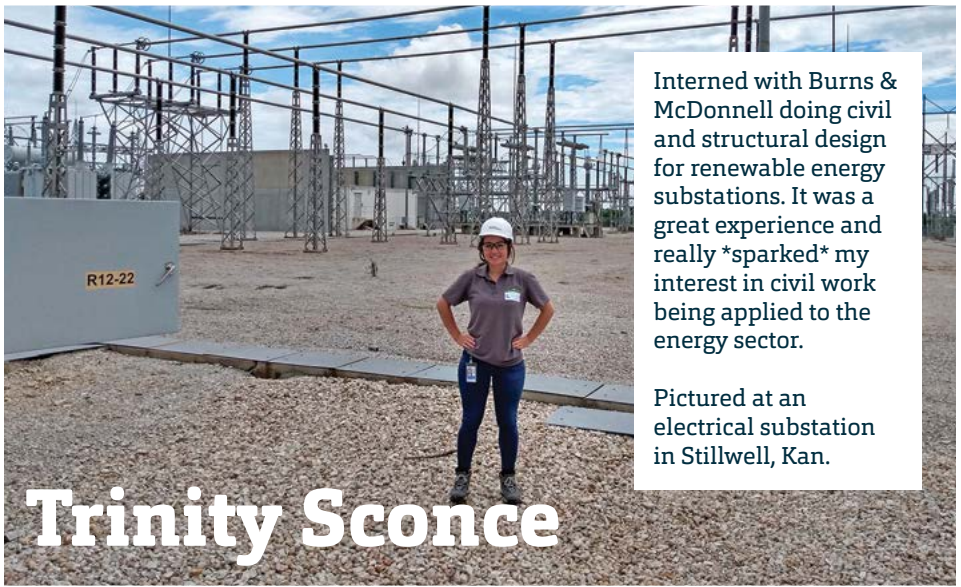


Dylan Reiter



Worked for Kiewit in Southern California on their Salton Sea project moving nearly 3.5 million cubic yards of embankment in order to build 4,400 acres of habitat ponds for the conservation of fish, birds and other wildlife in the area.

Brendan Schmidt



Interned with Burns & McDonnell doing civil and structural design for renewable energy substations. It was a great experience and really *sparked* my interest in civil work being applied to the energy sector.

Pictured at an electrical substation in Stillwell, Kan.

Trinity Sconce

True Work Experience

Worked as a traffic intern with MoDOT in the St. Louis district; pictured at a traffic control cabinet updating the phase times for an intersection; also checked traffic flow on Hwy. I-55 through a construction zone.



Jacob Stratman



Henry Winfrey



Ellie Viox

Interned at ARCO Construction Co. as a temporary superintendent at the 635,440 s.f. build-to-suit distribution facility in Decatur, Ill.

Interned in the Land Surveying department at MoDOT; used a GPS data collector while surveying.

STUDENTS RECEIVE RECOGNITION

Seniors **Evan Bergmann**, **Michael Winner** and **Anisa Ripp** were awarded Neil and Maurita Stueck 2022 Outstanding Senior Awards at the Academy of Civil Engineers induction and awards banquet in April. Anisa, Michael and Evan were nominated by student organizations or faculty and exemplified the outstanding scholarship, service and leadership worthy of the unique recognition.



Brenan Pool, pictured at left, received the 2022 ASCE St. Louis Section Annual Scholarship. It is awarded in recognition of excellence in academic performance and active participation in civil engineering issues in our society. Pool also received a 2022 national scholarship from AEI to further his education and growth in the field of architectural engineering.

ALUMNA NAMED ENGINEER OF THE YEAR



Kristen Leathers-Gratton, CE'90, president of Affinis Corp., was named Engineer of the Year by the Kansas Society of Professional Engineers. Most of her career has been focused on design and construction management of municipal streets and stormwater drainage projects. In 2021, she was recognized in the *Kansas City Business Journal's* 20 To Know in Engineering. She is also a 2022 inductee of the Academy of Civil Engineers.



Geldert-Murphey voted ASCE 2023 president-elect

The ASCE 2022 election results are in, and **Marsia Geldert-Murphey**, MS CE'97, is the new ASCE president-elect.

Active in ASCE for more than 30 years, Geldert-Murphey will assume the role of 2023 president-elect during the Society's business meeting this October at the ASCE 2022 Convention in Anaheim, California.

"My vision of service as the leader of ASCE truly is in alignment with the Society's purpose, vision, mission, and strategic goals," said Geldert-Murphey in her nominee's vision statement. "In fact, my vision is as easy as A-S-C-E: A – Advocacy, S – Service, C – Competence, E – Engagement. ... I believe ASCE must focus not only on the value we bring to our members but also on the ease and simplicity with which that value is conveyed, received, navigated and experienced."



Geldert-Murphey, P.E., F.ASCE, works as the region director for Missouri and Illinois for the Lochmueller Group Inc., specializing in transportation and geotechnical engineering. She chairs ASCE's Public Policy and Practice Committee, following a recent stint on ASCE's Board of Direction as the Region 7 director, 2016-2019. Her Society leadership roles began as president of the St. Louis Section in 2006; then later as Region 7 governor, 2009-2013.

Get to know Marsia.

www.asce.org/publications-and-news/civil-engineering-source/podcasts/article/2022/08/03/get-to-know-your-new-asce-president-elect-marsia-geldert-murphey

ALUMNI

NEWS



Let us know what you've been doing.

Send information about your professional and personal accomplishments — career changes or promotions, weddings, births and other news.

Submit your news online at:

www.mineralumni.com

1960s



Tom Feger, CE'69, received the ISPE Capital Chapter Distinguished Service Award. The award was in recognition of his exceptional technical contributions to the engineering profession, to his community and to Illinois Society of Professional Engineers.

1970s



Robert Brinkmann, CE'71, was named as the new chairman of the Missouri Highways and Transportation Commission.

Norma Curby, CE'72, MS EMgt'78, embarked upon a new business venture in 2019 called the Wellife Center. Wellife Center focuses on health protocols that support healthy graceful aging for every age group. It is the result of over 20 years of study, practice and personal experimentation.

Norman Dennis Jr., CE'71, MS CE'73, is retiring from the University of Arkansas after 25 years. He was a professor of civil engineering and senior associate dean of the College of Engineering.

Tom Mittler, CE'75, and his wife Jan celebrated their 50th wedding anniversary on July 31 with family and friends in Longview, Texas where they have lived since graduation. Tom is retired from Eastman Chemical Company after 37 years of service.

John Warmack, CE'78, was the commencement speaker at the special July ceremony at Missouri S&T.

1990s



Brandy Broeckling, CE'97, was recently promoted to senior project manager at Millstone Weber.

John Smith, CE'97, was recently promoted to vice president, market leader – energy and industrial at Alberici Constructors, Inc.

2000s

Nate Bachelor, CE'05, was recently promoted to department manager for CEI Engineering Associates Inc.



Nicholas Galla, CE'04, was recently promoted to serve as the new Director of Public Works. Galla has been employed with the City of Saint Louis since 2015.

Andrew Rucker, CE'06, recently celebrated 15 years of service as a civil/railway engineer at Hanson Professional Services Inc.'s Kansas City office.

2010s

Chris Catron, CE'18, MS CE'19, was recently hired at Lund Opsahl. His work with Lund Opsahl includes the new Washington State Library and Archives building in Tumwater, construction engineering services for a new 25-story office tower in Bellevue, and a seismic retrofit and major renovation of a 1920s-era mixed use building in Seattle's Sodo neighborhood.

Emily Echele, ArchE'18, CE'18, was promoted to Assistant Project Manager for S.M. Wilson.

Anna Eisenbath, CE'18, was promoted to assistant project manager at S.M. Wilson.

(continued on the next page)

ALUMNI NEWS continued...



Nicholas Ellis, Arch'17, CE'17, was recently promoted to project manager at BEX Construction Services. He joined BEX Construction in June 2020 as a project engineer assigned to several tilt-up warehouse projects.

Matthew Glisson, MS CE'10, has been named as director of technical activities for Deep Foundations Institute.

Colten Harris, CE'13, was recently named as the superintendent of streets in the Public Works Department for the city of Springfield, Mo.

Jimmy McGauley, CE'12, the project (Kemano T2 Tunnel Project), he is working on in Northern British Columbia achieved a major milestone 30 years in the making. Their tunnel boring machine completed its journey creating a second tunnel on Oct. 11, 2021.



John Phinney, CE'15, was promoted to senior project engineer at Tarlton.

2020s

Caleb Haymes, CE'21, was recently hired as an engineer at MECO Engineering in its Pittsfield office.

Joseph Nickell, CE'21, was recently appointed by Missouri Governor Mike Parsons to the Amusement Ride Safety Board.

Craig Smallegan, MS CE'21, has been named senior structural engineer for Brock Grain Systems.

WEDDINGS



Jessica Owen, ME'07, and **Richie Talbert**, ArchE'07, were married March 17, 2020 in Honolulu.



Andrea Studer, ME'18, EMgt'18, married **Chris Lepsky**, ArchE'17, CE'17, in St. Louis, on May 29, 2021.



T.J. French, ChE'19, and **Jacqueline Flynn**, CE'20, were married on June 9, 2021.



Marisa Tompkins, Phil'19, and **Cliff Rickard**, CE'20, were married in December of 2021 in Branson, Mo.



Komlos honored with professional distinction

Missouri S&T presented the Award of Professional Distinction during the spring commencement ceremony held Saturday, May 14. The award recognizes outstanding Missouri S&T alumni for professional achievement.

John Andrew Komlos, CE'85, of St. Louis, and vice president of ARCO Construction Co., received one the Awards of Professional Distinction in civil engineering. Komlos began his career as a project engineer for The R.W. Murray Co., then joined ARCO at its inception in July 1992. He oversees business development operations for the commercial and industrial office and has played an integral role in the company's success for the past 29 years.

At Rolla, Komlos was involved in several organizations, including serving as president of Beta Sigma Psi fraternity, where he is still an active alumni member. He also served as president of the Interfraternity Council and counts being thrown into Alice as a Student Knight in the Order of St. Patrick as his fondest college accomplishment.

Komlos is a member of S&T's Order of the Golden Shillelagh and past president of the Academy of Civil Engineers. He is a registered professional engineer in Missouri and member of the Engineers Club of St. Louis and is affiliated with the Industrial Asset Management Council and the National Association for Industrial and Office Parks. He is a member of the Busey Bank Advisory Board and is on the board of Lutheran Senior Services. Komlos' charitable activities include serving as a board member of YMCA Trout Lodge/Camp Lakewood and on the leadership committee of Fair St. Louis. He is a past chair of the Lutheran High School Association Board of Trustees and has chaired the Lutheran Family and Children Services Auction.

His wife, Linda, graduated from Missouri S&T with a degree in mechanical engineering. Their children, Ellen and Jack, also have degrees in mechanical engineering.

IN MEMORIAM



Remembering the following
Miner Alumni who have passed.

1940s

Ralford Goren, CE'48 (Feb. 16, 2007)

Frederick R. Heartz, MS CE'49
(Nov. 24, 2008)

J. Edward Little, CE'47 (Sept. 6, 2021)

1950s

Bill D. Ball, CE'57 (April 22, 2020)

John Bayless, CE'57 (March 16, 2022)

Edward L. Calcaterra, CE'52 (Oct. 15, 2021)

Henry M. Cole, CE'53 (June 15, 2021)

George E. Franke, CE'58 (Feb. 15, 2022)

Rex A. Gilmore Jr., CE'59 (Dec. 16, 2021)

James P. Goeddel, CE'54 (Jan. 31, 2022)

Willis G. Grinstead, CE'56 (July 10, 2021)

Gary Y. Gunn, CE'59 (July 24, 2021)

Joseph E. Heidemann, CE'59
(Sept. 30, 2017)

Carl J. Heumann, CE'58 (May 13, 2016)

Frederick S. Kummer Jr., CE'55
(April 30, 2021)

James W. Marlow, CE'55, MS CE'68
(May 22, 2021)

Robert E. Owens, CE'55 (April 10, 2022)

Don J. Weisenstein, CE'58 (June 28, 2021)

Rayburn L. Williamson, GGph'54, CE'61
(Aug. 10, 2016)

1960s

Charles D. Akey, CE'61 (May 17, 2021)

Dennis R. Brown, CE'66 (Dec. 15, 2021)

Norman L. Brown, CE'62, MS CE'69
(March 26, 2022)

William R. Brubaker, CE'68 (May 8, 2021)

George T. Bullman, CE'67 (Aug. 31, 2021)

Luke L. Callaway Jr., CE'60 (Dec. 22, 2021)

Lawrence L. Carter, CE'62 (Feb. 18, 2022)

William J. Cashman Jr., CE'65
(March 1, 2022)

John J. Cook, CE'64 (Jan. 3, 2015)

Jerry W. Davis, CE'66, MS CE'68,
(May 6, 2022)

Carl E. DeLong, CE'67, MS CE'69
(April 26, 2017)

John Flora, CE'65 (Jan. 2, 2020)

Michael C. Fridley, CE'69, MS EMgt'70
(Feb. 2, 2022)

Daniel J. Harris, CE'64, MS CE'71,
MS EnvE'73, (May 5, 2022)

Laurence J. Higgins, CE'66 (Nov. 4, 2018)

Hao-Yang Huang, MS CE'65 (July 9, 2021)

Russell A. Kamper, CE'62 (March 18, 2022)

Howard Manning Jr., CE'67 (April 13, 2021)

Robert C. Mercer, CE'69 (July 2, 2021)

Edgar Morris, CE'60 (Jan. 5, 2022)

Thomas G. Noggle, CE'61 (Dec. 10, 2021)

Ronald J. Payne, ME'66, CE'72
(July 4, 2017)

J.Q. Sims, CE'69 (Nov. 13, 2021)

Charles T. Sing, CE'63 (July 14, 2020)

James D. Steele, CE'66 (Sept. 15, 2021)

Alfred J. Thiede, CE'65, MS CE'72,
MS EMgt'72 (April 13, 2021)

John W. Walton, CE'61 (Jan. 22, 2019)

Frank Watson, CE'60 (Jan. 30, 2022)

Samuel L. Wolfinbarger, CE'61
(Dec. 17, 2019)

Alvin H. Woods, CE'60 (March 29, 2019)

Alwin C. H. Young, MS CE'62
(April 21, 2022)

George R. Zell, MS CE'69 (May 29, 2021)

1970s

William M. Barnes, CE'71 (Aug. 6, 2021)

James C. Brown, CE'72 (Dec. 18, 2021)

Michael L. Crow, CE'72 (Nov. 6, 2021)

Michael L. Davis, CE'75 (July 21, 2021)

August E. Heck Jr., CE'71, MS EMgt'76
(Dec. 19, 2021)

Phillip G. Ostapowicz, CE'78, MS EMgt'79
(Sept. 2, 2021)

Ronald W. Reynolds, CE'77 (March 9, 2022)

David W. Rommelmann, CE'70
(Sept. 3, 2021)

Eldon L. Turner, CE'72 (Aug. 29, 2021)

Stephen W. Wiechens, CE'71 (Feb. 7, 2022)

George G. Willy, CE'79 (March 19, 2020)

1980s

Edmund Moody, CE'85 (Sept. 4, 2021)

Walter J. Morgan, CE'81 (Oct. 18, 2021)

Michael Ogden, CE'82 (Dec. 3, 2021)

Susan Tryon, MS CE'84 (Dec. 13, 2021)

1990s

Philip Schroeder, CE'90 (Aug. 18, 2021)

2010s

William J. Phillips, CE'13 (May 20, 2021)

Friends & Family

Annette Brandenburg, wife of
Carl E. Brandenburg, CE'71
(Dec. 23, 2020)

Betty Brubaker, wife of the late
William R. Brubaker, CE'68
(Oct. 30, 2016)

Elizabeth Burke, wife of
Harold L. Burke, ME'62, MS CE'73
(Sept. 23, 2012)

Helen B. Little, wife of J. Edward Little,
CE'47 (Feb. 24, 2017)

Dottie Perry, wife of the late E.L. Perry,
CE'40 (Dec. 9, 2013)

Nancy Pfeiffer, wife of David C.
Pfeiffer, CE'69 (May 20, 2014)

Dorothy Raymer, wife of the
late Gordon E. Raymer, CE'49
(May 19, 2021)

Quita Rodman, wife of the late
Wilfred K. Rodman, CE'37
(June 26, 2021)

Kathryn Tate, wife of the late David E.
Tate, CE'50 (Sept. 26, 2016)

Marjorie Williamson, wife of the late
Rayburn L. Williamson, GGph'54, CE'61
(Nov. 9, 2004)

Eileen Winters, wife of Lawrence A.
Winters, CE'68 (Jan. 15, 2014)



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 Edward M. Halter
 Thomas M. Hayden
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1974

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Andrew B. Becker
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Ehrin A. Sleet
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2011

Andrew J. Bodine
Courtney Kuelker
Matthew R. Kuelker
Adam C. Morgan
Jordan L. Wilson

2012

Caitlin Kalicak
Amir Kukic
Annelise Smith
Matthew J. Spreng

2013

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Molly Dimick
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Tyler C. Payne

2014

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2015

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2017

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2018

Michelle Reed

2019

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Kelsey Noel Jett
Katie M. Mietzner
Annie Muehlfarth
Branice D. Neal

* denotes deceased

Education gets a LEEP

With decreased state support, abilities to maintain experiential learning and hands-on education became endangered as instructional lab equipment failed and needed to be replaced.

This loss threatened our motto of producing "street-ready engineers."

To help with the loss, the Academy of Civil Engineers (ACE) board of directors challenged its members and CAR EE alumni to raise funds for core undergraduate teaching labs. ACE board member **Brent Massey**, CE'95 and principal with CEI Engineering Associates Inc., outlined the Laboratory Equipment Enhancement Program (LEEP) and developed the core challenge. The goal of \$100,000 was reached for the Construction Materials and the Environmental Engineering Lab courses, replacing equipment like concrete air meters, materials drying ovens, water quality testing equipment, educational rheometers and balances, microscopes and more. The challenge was largely met by alumni donors with notable support from **Duane Montana**, CE'75, **Al Kaplan**, CE'72, and **Jeff Medows**, CE'94.



The goal for 2022 is again \$100,000, primarily to target replacing and upgrading the Water Resources Lab equational equipment. This includes replacing the universal pump test apparatus. It quit working in 2021 amid a smoke-filled room. The secondary needs for 2022-23 include upgrading computers in the Senior Design Lab. Future goals are to upgrade the Geotech Soils Lab and the Architectural Design Studio in 2023.

If you would like to donate, you can go online to giving.mst.edu/care. There you can select the designation LEEP 2 (715110).

Or you can mail a check to:

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Chi Epsilon Induction Ceremony

LaWanda Jones, CE'91, (pictured front left) was recently initiated as the 135th honor member of Missouri S&T's Chi Epsilon chapter. Individuals are selected who have attained a degree of eminence in the civil engineering profession, exhibited experience and ability worthy of emulation by young civil engineers, and possess a minimum of 10 years' experience in the civil engineering profession as registered professional engineers. The S&T student chapter initiated 14 new current students during the ceremony along with Jones.



Class of 1972 Golden Reunion

Graduates from the Class of 1972 returned to campus for their Golden Alumni Reunion. They had the opportunity to tour the department's facilities, meet with faculty members and learn about the latest research, industry partnerships and student projects.

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YOUR DONATIONS MAKE A BIG DIFFERENCE!

Miner Phonathon begins Sept. 18. Answer the call.

Alumni helped purchase microscopes through our LEEP Program, along with sending students to conferences and team competitions. Learn more on page 33.



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