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Upcoming Events

April

- 10 – ASCE April Luncheon
- 10 – Energy Infrastructure
- 12 – YMG meeting
- 14 – Work Zone Awareness 5K
- 17 – EWRI St. Louis Section General Meeting
- 19 – EWRI Water Resources Seminar
- 19-21 – Mid-Continent Student Conference (MCSC) at SIUC
- 25 – ASCE Construction Committee Steel Fabrication Tour
- 26 – Announcement of 2018 Report Card for Missouri's Infrastructure and 7th Annual Legislative Drive-in

May

- 1-2 – Missouri Concrete Conference at MST
- 3 – 2018 Prakash Lecture at MST

June

- 10-13 -- 5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD V) Conference in Austin, TX.



April Luncheon Tuesday, April 10, 2018

What does it take to become a successful engineer?

Stephanie Slocum, PE, author of the 2018 book *She Engineers* and consulting structural engineer out of State College, PA, will explain the three steps to success and give you tools to map out the career of your dreams. With over \$500 million dollars in total project construction costs under her belt in her engineering career to date, she will show you how you too can use your unique strengths to be a leader, no matter where you are in your career right now. Along the way, Stephanie will show you how and why successful engineers and firms celebrate diversity, what you can do about bias (it's not just a women's issue!), and how engineers benefit both themselves and their employers when their interests and competencies align with their work.

About the Presenter: Stephanie Slocum, PE is a 15-year veteran of the structural engineering industry, and author of *She Engineers: Outsmart Bias, Unlock Your Potential, and Live the Engineering Career of your Dreams*. Stephanie is on mission to help other engineers create extraordinary careers. She is the current chair of the Structural Engineering Institute's (SEI) Business Practices committee, and is an Associate Principal at a woman-owned building structures consulting firm headquartered near Baltimore, MD.

She graduated with an integrated bachelor's and masters in architectural engineering in 2002 and is a licensed professional engineer in multiple states. She has extensive experience as a project manager, where she has learned critical importance of mastering communication skills. Stephanie lives in Pennsylvania with her three young daughters - possible future engineers! - and her husband (also an engineer), Jason.

Register now at <https://goo.gl/pMJyUD>

Time, Date, Location

11:30am to 1:00pm, April 10, 2018, at The Engineering Center, 4359 Lindell, St. Louis 63108. Registration starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm. One (1) PDH available.

Cost

\$15/person, students and members in transition \$5 (checks payable to ASCE).

Registration

Please register and pay online using the link above, or call the Engineering Center 314-533-9333, or by email: info@engineersclub.net for reservations by 5:00pm, Thursday, April 5, 2018. ASCE is charged for all reserved lunches. If you've signed up and can't make it, please cancel by Friday before the meeting or we may have to charge you for the meal.

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President's Message



As we head into spring, we anticipate the arrival of warmer weather and some of the excitement that comes with it, such as baseball season. Of course as is customary in the Midwest, we get some weather curveballs, and it's snowing on Easter. We hope the weather turns favorable quickly as we have some exciting ASCE events in April.

Hopefully you have noticed the announcements advertising the biggest student event of the year, the Mid-Continent Student Conference (MCSC), which will be hosted by the SIU-Carbondale Student Chapter on April 19 – 21. The students have been planning for months and working extremely hard to put on a successful event which will include a networking session; competitions such as GeoWall, Concrete Canoe, and Steel Bridge; a viewing of the Dream Big Movie; and of course, the Awards Banquet. There will be several ASCE members from the St. Louis section that will help judge competitions and network with the students from approximately 15 Midwestern universities. It's not too late to plan to attend and help support the students as they work toward a future in civil engineering.

Continuing with the student theme, I was recently honored to be a part of a panel discussion on engineering careers at Mascoutah (IL) High School. The panel consisted of representatives from several engineering fields, and I was one of two civil engineers on the panel, and the only one there to discuss geotechnical engineering. Although I'm extremely impressed with the student attendees and their intelligent questions, I will say that in an audience of approximately 25 students, there seemed to be very few interested in a career in civil engineering. I think ASCE is doing an extraordinary job on both a local and national level to promote our profession, so hopefully all of this time spent will grow the interest level of our profession. Our continued involvement in local schools, and resources such as the Dream Big movie, will go a long way towards generating excitement in civil engineering. You can do your part by purchasing the DVD of Dream Big for a school of your choice. Instructions for doing so can be found in this newsletter.

Lastly, another very important event will happen at the Missouri Capitol Building Rotunda on April 26. This is when the ASCE Sections from both St. Louis and Kansas City will join together to unveil the 2018 Missouri State Infrastructure Report Card. Please keep this date on your calendar and do your best to educate the decision makers and lawmakers from your districts on the condition of the state's infrastructure, and the continued need for funding sources to maintain and improve it. We will be working hard to promote the Infrastructure Report Card through various methods, including social media. (<https://www.linkedin.com/company/asce-st-louis-section/>). If you have the opportunity, please like and share any posts you see in this regard, and let's make everyone in all walks of life aware of the need for infrastructure spending.

Respectfully,
Lyle Simonton, P.E.
lsimonton@subsurfaceconstructors.com

2018 Report Card for Missouri's Infrastructure and 7th Annual Legislative Drive-in

ASCE St. Louis and Kansas Sections will announce grades for the *2018 Infrastructure Report Card for the State of Missouri* at 10:30 AM in the First Floor Rotunda of the Capitol. The announcement will include speeches from ASCE, invited legislators, and industry interests.

This event is open to ASCE members and friends. We will Meet at 7:45 am to determine carpooling on April 26, 2018 at the north end of the:

Weldon Spring Carpool Lot
76 Research Park Dr.
St Charles, MO 63304
Leave promptly at 8:00 am.

[Click here for Directions link.](#)

A catered lunch will follow the announcement in the Third Floor Rotunda and Alcove at 11:30 am.

Please make an appointment between 1:30 and 3:00 pm to visit with your Representative and Senator to talk about the report card grades and infrastructure funding. Talking points will be discussed during lunch.

Don't know who to make an appointment with? Go here:

http://www.senate.mo.gov/LegisLookup/default.aspx/leg_lookup.aspx and <https://www.house.mo.gov/>

Please do not wait until the last minute to make your appointment with your legislatures. Members and friends from Illinois are welcome and can participate in the meetings afterwards.

Please sign up so we know how many to expect for carpooling and lunch. Sign up at:

<https://goo.gl/TWH>

To register or ask questions, contact Dennis Boll at 314-568-3125 or dboll@geotechnology.com.

Will the grade for
Missouri's
Infrastructure be
better in 2018?

THE 2018 AMERICAN SOCIETY OF CIVIL
ENGINEERS (ASCE) INFRASTRUCTURE REPORT
CARD FOR THE STATE OF MISSOURI WILL BE
RELEASED ON THURSDAY, APRIL 26, 2018, AT
THE MISSOURI STATE CAPITOL. THE PROGRAM
WILL BEGIN AT 10:30 AM IN THE CAPITOL FIRST
FLOOR ROTUNDA. A CATERED LUNCH WILL
FOLLOW IN THE SENATE THIRD FLOOR ROTUNDA
AND ALCOVE AT 11:30.



Follow us on [LinkedIn](#)

Call for Local Award Nominations Due by June 1

Do you have an outstanding project or colleague who deserves recognition? Consider nominating them for an ASCE St. Louis Section award! These prestigious awards are presented at the Annual Awards Dinner in September and are a great way to showcase the civil engineering excellence in our Section!

The St. Louis Section is seeking nominations until June 1 for the following Local Awards:

St. Louis Section Project of the Year

This award is made annually for any engineering project that falls into the general category of civil engineering. The award is given to the owner, lead design engineer and general contractor of the project. Only engineering and construction achievements within the boundaries of the St. Louis Section are eligible. The project must have been completed and placed into operation within 5 years of the date the nomination is submitted. Basis for the Award is “an engineering project that demonstrates the greatest engineering skills, and represents the greatest contribution to civil engineering progress and mankind”.

Professional Recognition Award

This award recognizes the importance of professional attainment in the advancement of the science and profession of engineering and is presented annually to a Member of the St. Louis Section who has made substantial contributions to the engineering profession and the St. Louis Section.

Young Engineer Award

This award recognizes professional contributions of younger members to the Society and to the Section and is presented annually to a Member of the Section who is less than 35 years of age on February 1, 2018.

Award to Service People

To bring public recognition to individuals who have performed outstanding service to people in their communities and to further public understanding and recognition of the identification “Civil Engineering - A People-Serving Profession”. The awardees need not be civil engineers but are selected based on their service to the general public that has some connection with the planning, design or construction of the people serving works of the civil engineering profession.

Excellence in Journalism Award

This award is to honor journalists for outstanding articles that enhance public understanding of the role and impact of civil engineering in designing solutions for clean water, transportation, the environment, and other public works projects. Nominations will be accepted for journalists and producers from English-language, general-interest regional and national newspapers, radio and television stations, magazines, and electronic and Web-based news outlets.

Please submit nominations to Susan McCrary at smccrary@stlmsd.com.

Guidelines and forms for making nominations are available on our St. Louis Section website at <http://sections.asce.org/stlouis/> under the “Awards & Scholarships” tab or the information can be emailed or mailed to you upon request. Call 314-768-6306 with questions.

Deadline for submittal is June 1, 2018.

John Weiland Receives MSPE Outstanding PE in Private Practice Award

Our own John Weiland, PE, (ASCE St. Louis Section Treasurer) has received the OUTSTANDING PE IN PRIVATE PRACTICE AWARD from MSPE St. Louis Chapter. For more details please visit <http://www.wadetrim.com/weiland-mspe-award/>

Congratulations, John!

Administration Opening

ASCE St. Louis Section is seeking dedicated members to open chair committees as briefly described below, with the opportunity that the incoming chair will “make it their own.”

Membership Champion - The Membership Champion will be responsible for promoting membership in ASCE of all qualified civil engineers, and to encourage active membership in the local section by all ASCE members in the area. Responsibilities also include outreach to non-member civil engineers in the area, inviting them to Section meetings, and encouraging them to join and become active in ASCE.

Sustainability Committee - The purpose of the Sustainability Committee is to facilitate and accelerate the sustainability discussion, offer sustainability related continuing education sessions, and serve as an available and useful resource for the St. Louis engineering community. The committee should organize at least one seminar or program each year that is eligible for Professional Development Hours (PDHs). The development and presentation of the program should be coordinated with the Continuing Education Chair to ensure that the event is eligible for PDHs, the activity is appropriately documented and certificates of attendance are provided to the attendees. Programs could include presentation of fundamental concepts of sustainability, case studies, interactive work sessions, etc.

Help to Send Dream Big to Schools for \$5

ASCE has secured funding from the *United Engineering Foundation* to 30 percent of the nation’s 95,000 public schools. You can send a *Dream Big* toolkit of educational resources to schools of your choice for \$5 per school. More information about this program can be found at

<http://news.asce.org/help-put-dream-big-in-every-u-s-school/>

The official *Dream Big* website is at

<https://www.dreambigfilm.com/>



Alizadeh / Geotechnology Scholarship

This scholarship is awarded to a Master’s Level Civil Engineering student studying either geotechnical or environmental engineering. The scholarship applications are due on May 7. For more information, please contact Lyle Simonton at lsimonton@subsurfaceconstructors.com.

Panel Discussion on Engineering Careers

On Tuesday March 20, ASCE President Lyle Simonton participated in a panel discussion on engineering careers at Mascoutah (IL) High School. The panel consisted of mining engineers, civil engineers, industrial engineers, and an electrical engineer who answered questions from Mascoutah Instructor Chris Levraut and then from the students. Lyle was the only geotechnical engineer on the panel, and he discussed not only a what geotechnical engineers do, but also the benefits of engineering societies like ASCE.



2018 Legislative Fly-In to Washington D.C.

On March 13-14, 2018, 200 ASCE Members, including St. Louis Section members **Alison Graves, Dennis Boll, Bill Stahlman, and Marsia Geldert-Murphey**, attended the 2018 Legislative Fly-In in Washington D.C. The event started at the Renaissance Capital View Hotel in Arlington, VA, where we heard from ASCE leaders, Congressmen, and our knowledgeable lobbyists. On the 14th, ASCE set up visits on The Hill with our US Senators and Representatives, where we shared our everyday civil engineering experiences, issues briefings from the ASCE Government Relations team, and the **2017 Infrastructure Report Card**. We capped off the day at a reception on the roof of ASCE Headquarters!

210 ASCE members from 49 states, DC and Puerto Rico arrived on Capitol Hill to advocate for infrastructure and the civil engineering community. Remember – our elected officials rely on our judgements and opinions as **engineering experts!**

To get more involved with our Drive-In and Fly-In programs, contact the St. Louis Government Relations Chair and State Advocacy Caption **Dennis Boll** at dboll@geotechnology.com. For more photos, search #ASCE2DC on social media.



Left: MO ASCE Members Alison Graves, Dennis Boll, Sheryl Gallagher (KC)



Left/Below: MO ASCE Members with staffers from Rep. Lacy Clay, Sen. Roy Blunt, & Rep. Ann Wagner



Left: MO ASCE Members with Senator Claire McCaskill



ASCE Younger Members Group

See you at our Next Meeting!

Thanks to everyone who came out to our meeting last month! Join us for our next meeting at Tower Pub!
Plan on attending? E-mail Melissa.Marks@ch2m.com

April YMG Meeting

Thursday, April 12, 2018
Tower Pub
3234 Morganford Road, 63116
6 pm to 8 pm

St. Louis Section at SIUC!

Our Section members Alison Graves and Melissa Marks presented on ASCE and their recent project work to our SIUC ASCE student chapter on March 27th at their student chapter meeting. We look forward to the Mid-Continent Student Chapter Conference in late April at SIUC to interact with the rest of our student chapters!



2018 Geo-Institute – Case History Night

On March 28, 2018, the St. Louis Geo-Institute Chapter of ASCE presented the annual Case Histories Seminar featuring the Cross-USA Lecture by Dr. Andrew Whittle of MIT. The topic was “Prediction of Ground Movements Associated with Tunneling”. Students from University of Missouri, Missouri S&T, and SIUE made oral and poster presentations at the beginning of the seminar.



From left to right: Minh D Uong (University of Missouri), Dr Andrew Whittle (MIT), Junnan Cao (MST), Ruoyu Zhong (MST), Faiza Khan (SIUE), and Pradip Adhikari (SIUE)

EWRI St. Louis News

Water Infrastructure Display at St. Louis Science Center

St. Louis ASCE EWRI is a co-sponsor and collaborator (through Metro Water Infrastructure Partnership (MWIP) in the pilot water infrastructure display at the St. Louis Science Center (SLSC). SLSC is capturing visitor comments regarding the display with the intent to finalize the remainder of the water/wastewater displays once final funding is available. St. Louis Section members are encouraged to visit the display and provide feedback.

Upcoming Events:

EWRI St. Louis Section General Meeting --- April 17, 2018 at 10:30 AM Einsteins Bagels 8127 Big Bend in Webster Groves

April EWRI Water Resources Seminar--April 19, 2018 11:30 AM Speaker TBD

May EWRI Water Resources Seminar-- May 10, 2018 11:30 AM Speaker Steve Starrett (Dean of Engineering, LeTourneau University) on Ethics in Engineering

If you have questions, please contact Bob Holmes (bholmes@usgs.gov)

ASCE Construction Committee Steel Fabrication Tour

07:00 – 08:30, Wednesday, 25 April 2018

Location: Ben Hur Steel Fabrication, 5319 Shreve Ave, St. Louis, Missouri, 63115

<http://www.benhurconstruction.com/fabrication/steel-fabrication/>

Along with a tour of the facility discussions will include:

- Typical fabricator roles and tasks
- Shop drawings and design
- Fabrication processes
- Storage and delivery of fabricated items
- Typical issues between fabricator, constructor and designer (EOR) during the shop drawing and fabrication stages
- Keys to a good successful fabrication project

If you are interested in attending this tour, send your name, email, and phone number to Anne Werner at awerner@siue.edu no later than COB 20 April 2018. If you have questions, call Anne at 618-650-5191.

Space is limited, so do not wait to sign up!

Annual ASCE/ASLA Golf Tournament



Save the date!!

ASCE and ASLA will hold our Annual ASCE/ASLA Golf Tournament the morning of Friday, September 7, 2018 at Forest Park Golf Course. Registration and sponsorship information are coming to the ASCE website and newsletter. In the meantime, mark your calendars now to help raise money for our scholarship fund!

Contact Sean Hibbits at 314-432-8073 or Sean.Hibbits@psiusa.com for more information.

11th Annual ASCE Springfield Legislative Day

On April 25, 2018, The ASCE Illinois Section along with other Illinois ASCE Sections and Branches are converging on Springfield to speak to Illinois legislators on the importance of infrastructure investment and funding.

<http://files.constantcontact.com/8d5bcc8c101/7a15bb41-dd77-41b9-a7cc-02f6954e93f9.pdf>

Register by April 19, 2018 for the luncheon. For more information, please contact John Lazzara at 773-718-2282 or John.Lazzara@hdrinc.com.

5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD V) Conference

On behalf of the ASCE Geo-Institute (GI) and the conference organizing committee, we would like to invite you to participate in the 5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD V) conference (<http://www.geesdconference.org/>) in Austin, Texas, on June 10-13 2018 at the AT&T Executive Education and Conference Center.

GEESD V 2018 builds upon the success of past events in Sacramento CA (2008), Seattle WA (1998), Park City UT (1988), and Pasadena CA (1978). The conference will include a range of keynote and theme lectures, technical sessions, and short courses on topics of interest to geotechnical and earthquake engineers. As it was the case in the previous GEESD conferences, this event will bring together practicing geo-professionals, researchers, and students from around the world to share the latest advances in practice and research in geotechnical earthquake engineering.

We encourage you to register for the conference or participate as an exhibitor or sponsor. Past conferences in the series have been extremely well attended by a wide range of earthquake engineering professionals, and we thus exhibitors and sponsors will get a great exposure at the conference.

Key links are as follows:

[Sponsorship Opportunities](http://www.geesdconference.org/sponsors) (<http://www.geesdconference.org/sponsors>)

[Exhibit Opportunities](http://www.geesdconference.org/exhibitors) (<http://www.geesdconference.org/exhibitors>)

Please feel free to contact any of us for any general questions on the conference. You may also contact Drew Caracciolo at [703-295-6087](tel:703-295-6087) (office); or by email at dcaracciolo@asce.org for reserving an exhibit booth, sponsorship slot, or any specific questions on the exhibit and sponsorship opportunities.

We look forward to welcoming you in Austin!

Sincerely,

Ellen Rathje, Conference Chair

Adrian Rodriguez-Marek, Conference Co-Chair

2018 EWeek at the Science Center



2018 Engineers Week at the Saint Louis Science Center



The Engineers Week at the Science Center event hosted by the **Missouri Society of Professional Engineers (MSPE)** began Saturday morning, February 24, 2018 with the opening of the Science Center doors at 9:30 a.m. A variety of engineering fields were represented by organizations, government agencies, companies, and colleges.

In addition to MSPE, three other engineering societies were present during Engineers Week. The **American Society of Civil Engineers (ASCE)** exhibit included making aluminum foil boats and placing penny passengers onto it until sunk. **Gateway Biomedical Society (GBS)** brought there surgical scope to operate on a squash and medical equipment for reading blood pressure and oxygen levels. The **Society of American Military Engineers (SAME) Saint Louis & Scott Field Post** launched wiffle balls at a target using a catapult.

ASCE:



GBS:



SAME:



The **United States Army Corps of Engineers** brought several hands-on models including their water sediment transport model and levee protection model in addition to making life preservers. **Boeing** brought a miniature flight simulator, used different household appliances to relay signals to operate different programs on interactive laptops in addition to a virtual reality device. **IMEG** discussed how a tesla coil works, **Geotechnology** displayed their interactive ground penetrating radar, soil coring samples, and rocks, and **Power Engineers' Sparks of Life** group completed the circuit with play-doh and displayed high voltage parts.

U.S. Army Corps of Engineers:



IMEG:



Boeing:



Geotechnology:



Power Engineers-Sparks of Life:



Ken Blackburn:



Ken Blackburn gave two presentation at Center Stage on what it takes to make a long flying paper airplane and demonstrated throughout the day how to make his Guinness World Record winning paper airplane. NSS St. Louis Space Frontier in conjunction with Cyan React discussed moon villages and space farms with their hands-on Lego moon base activity, 3-D printers, and photobioreactors and bacteria reactors. Spectra from Washington University demonstrated how light in combination with color can be used to understand materials through visualization of their simplified spectrophotometer. Maryville Science and Robotics Program displayed miniature robots including the xylophone playing robot created from their Science and Robotics Program.

Space Frontier/Cyan React:



Spectra:



Maryville:



Several universities participated this year at the Science Center. **Missouri University of Science and Technology** (Missouri S&T) had their Student Design Center groups launching paper rockets using an air compressor with the Advanced Aero Vehicle Group (AAVG) (both airplane and rocket), Concrete Canoe, Human Powered Vehicle, iGEM, Mars Rover Design Team, Robot Design Team, and Solar House. **Ranken Technical College** in conjunction with **Rockwood Summit High School** showcased how they transform old vegetable oil into biodiesel fuel that can be used in diesel engines. **Southern Illinois University Edwardsville** (SIUE) displayed two Baja Cars in which kids could climb into and pretend they were racing with the best, and their **SIUE ASCE** student chapter simulated earthquakes with their shake table.

Missouri S&T:



Ranken Technical College and Rockwood Summit High School:



SIUE:**SIUE ASCE:**

The **MSPE** exhibit was located near the entrance of the Science Center next to the registration table and intrigued many throughout the two day event. It involved a ramp, a rubber ball, office supplies, and a Buzz Light-year figurine. The objective was to build a structure out of a half sheet of paper, a piece of tape and two rubber bands, paper clips & one-inch long pipe cleaners. The structure to be built was to protect Buzz Light-year, who was located at the bottom of the ramp, from being knocked over by the ball (a.k.a.-the asteroid) that rolled down the ramp. The activity was popular with all age groups, and a variety of solutions were discovered.

**MSPE:**

Special thanks to these volunteers who made the MSPE exhibit a success: **Michael Buechter, Marie Collins, Kathy French, Diane Grossenheider, Mike Hernke, Doug Hickey, Jennifer Kuchinski, Everett Litton, Rebecca Losli, Maurice Mula, George Robin, Ryan Shaw, & Matt Wombacher.**

Engineers Week is nationally recognized and concluded in St. Louis, MO with the close of the Saint Louis Science Center at 4:30 p.m. on Sunday, February 25, 2018. Attendance was recorded Saturday with 4,651 people, and Sunday with 2,675 people. Thanks to our Science Center contacts **Paul Freiling** and **Ruth Watt** for making the Engineers Week Event at the Science Center a smooth and successful operation. We are looking forward to next year's Engineers Week at the Science Center scheduled for **February 23-24, 2019!**

- Erin Jearls, MSPE

SHAMSHER & SALLY PRAKASH

DISTINGUISHED LECTURE SERIES IN GEOTECHNICAL ENGINEERING

JAMES K. MITCHELL



University Distinguished
Professor Emeritus,
Virginia Tech

Member, National Academy
of Engineering

Geotechnical surprises — or are they?

Thursday, May 3

3:30 p.m. | Room 121, Butler-Carlton Hall

ABSTRACT:

The nature and scope of geotechnical engineering are such that the problems and projects we deal with are a never-ending source of both challenge and excitement. In most cases we do very well in defining the problems and developing suitable solutions resulting in successful completed projects. Unfortunately, however, there remain far too many cases in which something goes wrong. Often a failure or other bad outcome comes as a complete surprise. However, in a significant number of cases, perhaps the unexpected or surprise outcome might have been anticipated. Three illustrative case histories are reviewed and then examined to see if what went wrong might reasonably have been anticipated. The first involves a well-known and much studied stability failure along the composite double liner system of a hazardous waste landfill. The second relates to unusual soil types that were the cause of major difficulties during earthwork construction of a large embankment dam. The third is about a very large, slow-moving landslide that caused major distress to a roadway and impacted the safety of a large bridge. Several reasons why unexpected adverse outcomes may occur are stated and some possible means for reducing their frequency and severity in the future are proposed.



Shamsheer & Sally Prakash

This lecture is made possible through a generous gift from from Shamsheer and Sally Prakash.

Dr. Shamsheer Prakash joined the department of civil engineering in 1978 as an associate professor in geotechnical engineering and has since influenced a generation of graduates and peers. Retiring in 2000, he is now a professor emeritus. Shamsheer has made several contributions to the field of geotechnical earthquake engineering, in which he is recognized for advancing soil dynamics and earthquake engineering. He is a pioneer in the liquefaction of silt and clays and soil-pile-structure interactions.



Department of Civil, Architectural
and Environmental Engineering



April 10, 2018 at the Kansas City Marriott Downtown



Midwest Energy Policy Series
Presented by the Missouri Energy Initiative
Series 1: Energy Infrastructure

9:00 am - 3:30 pm

Midwest Energy Policy Series: Energy Infrastructure
Presented by Missouri Energy Initiative

- **State Infrastructure Goals and Concerns** Hear from KS and MO utility regulators on the hot infrastructure issues and what they see as the future of energy infrastructure, including the innovative ideas they are hearing and the concerns they see for tomorrow.
- **Infrastructure for the future** Southwest Power Pool (SPP) and Midcontinent Independent System Operator (MISO) will share their plans for the grid of the future and how they will deliver this while dealing with changing capacity needs, a growing diverse generation portfolio through the largest ISO seam in the US.
- **Gas Infrastructure: Planning for the Future** The American Gas Association will discuss how natural gas's portion of the generation and use mix is growing. How does this growth interact with consumers, utilities and how does the growth planning process work?
- **Impact of Technology on Infrastructure** From the Ukraine, Russia and the internet of things, Ameren will discuss how utilities are dealing with the 21st century issues of response, recovery and preparedness.
- **What Consumers Need in Infrastructure** Doe Run will explore large consumers' interests and concerns related to energy infrastructure as well as their view of the infrastructure of the future.
- **Infrastructure Hot Topics** Hear about Springfield's Emergent Grid Battery Energy Storage project, and Electric Vehicle Infrastructure and how it can be built.

Note: Sessions are still in development. More speakers and topics coming.



3:30 pm - 5:00 pm

Forum: Future of Energy Infrastructure

Presented by KC Chamber Energy & Environment Committee

5:00 pm - 6:30 pm

Energy Leaders Reception

Presented by KC Chamber Energy & Environment Committee

Sponsored by Kansas City Power & Light and Spire.

REGISTER at mceenergy.org/meps/

Thank you to the Midwest Energy Policy Series sponsors:

Gold sponsor



Silver sponsors



Bronze sponsor



Media sponsor



Partner



These events kick off the

Midwest Environmental Compliance Conference

KANSAS CITY CONVENTION CENTER | MISSOURI
April 11-12, 2018

The Missouri Energy Initiative is a nonpartisan, nonprofit 501(c)(3) association of public and private-sector entities working collaboratively to identify opportunities and solutions to meet Missouri's energy needs through support and facilitation of energy economic development, education, research and pragmatic policies. MEI's vision is to be Missouri's trusted source and forum for information and solutions on innovative, reliable and affordable energy for Missouri.

TRIVIA NIGHT

engineers without borders



APRIL 6, 2018 • 7-10 PM

Doors 6:30 PM, Trivia Begins 7:30 PM Sharp!

Kirkwood Community Center // East Gym
111 S Geyer Rd, Kirkwood, MO. 63122

\$160 per team of 8, \$20 per person

Team Reservations due on March 30, 2018

Email Gina at gansmanngm@bv.com or visit

<https://support.ewb-usa.org/trivia>



This event will also include raffles and cash prizes for the top 3 trivia teams! Please feel free to BYOB (no glass) & Snacks.

Checks can be made payable to "EWB -- USA"

YOUR DONATIONS

gateway professional chapter

By making a donation on our behalf, you are supporting international aid and local design to those living in the community of Komucala, Bolivia. Our chapter traveled for a fourth time to Bolivia in October 2017 for the implementation of the second and final phase of our water supply project. We installed piping from natural springs to community houses and built household taps to give easy access to clean potable water for every family in the community. Our focus in 2018 is to design latrines for every house, which we will begin constructing this fall. Funds raised at this event will go to support the projects within the Komucala community.



Please help us support the community of Komucala by sponsoring this year's Trivia Night! Our sponsorship levels are as follows:

- Trivia Question Round: \$25
- Bronze Sponsor: \$100
- Silver Sponsor: \$150
- Gold Sponsor: \$250
- Platinum Sponsor: \$500



You can make a donation online at <https://support.ewb-usa.org/trivia>
Please make your check payable to "EWB-USA" with Gateway Professional Chapter in the memo line by March 30, 2018



New Dates: May 1-2, 2018

REGISTER

Conference Topics

MATERIALS:

- *Evaporation Retarders*
- *Mixture Incompatibilities*
- *Eastern Missouri Pavement Consortium*

READY MIX/PRE-CAST OPERATIONS:

- *Mix Monitoring During Delivery Using "VERIFI"*
- *Aggregate Proportioning Techniques*

CONSTRUCTION:

- *Sawed Joint Failures: Case Histories*
- *Poplar Street Bridge*
- *The Ins and Outs of Pumping*
- *Troubleshooting Case Histories*

MAINTENANCE & REPAIR:

- *Hydrodemolition & Bridge Deck Rehab*
- *Deicers & Protection of Concrete*
- *Partial Depth Patching*
- *New Concrete Pavement Distress Manual*

QUALITY CONTROL & INSPECTION:

- *Correlation Compressive & Flexural Strength*
- *Quality Placement from a QC Point of View*

DESIGN & SPECIFICATION:

- *New FAA Concrete Paving Specs*
- *Evolution of Concrete Bridge Decks*

2018 WORK ZONE AWARENESS 5K



TMC tour
Big Truck Show
Selfies with Barrel Bob
Vendors

5K RUN & WALK

**5K RUN | 5K WALK, 1 mile
FAMILY FUN RUN/WALK**

SATURDAY, APRIL 14, 2018, 8 a.m.

MoDOT TMC, 14301 S. Outer 40, Chesterfield, MO

Run, or walk to share the message about work zone safety. Bring the family for a 5K or the 1 mile fitness run/walk. Meet Barrel Bob, tour the TMC.

Register to run, walk or volunteer at:

<https://www.athlinks.com/event/work-zone-5k-2018-132863>

\$15 PER PERSON

CONTACT: Tania at 314-453-1805

Employment

Opportunities Posted by WSP USA



WSP USA (formerly WSP | Parsons Brinckerhoff) is the U.S. operating company of one of the world's leading engineering and professional services firms—WSP. Dedicated to serving local communities, we are engineers, planners, technical experts, strategic advisors and construction management professionals. WSP USA designs lasting solutions in the buildings, transportation, energy, water and environment sectors. With nearly 7,000 people in 100 offices across the U.S., we partner with our clients to help communities prosper. Learn more at <http://www.wsp-pb.com/en/WSP-USA/Join-us-USA/Job-Opportunities/>

Be involved in projects with our Marketing Team and be a part of a growing organization that meets our client's objectives and solves their challenges. At WSP, we are driven by inspiring the right people to be part of our future-focused business objectives. Our devotion to teamwork has allowed us to build communities and expand our skylines. Here at WSP, anything is within our reach—and yours as a WSP employee. Come join us and help shape the future!

Marketing Intern (ID# [36477](#))

Saint Louis, MO

Category: Marketing

Job Type: Intern

Minimum Experience: -

Required Education: Bachelor's Degree In Progress

Marketing Coordinator II (ID# [36832](#))

Saint Louis, MO

Category: Marketing

Job Type: Full Time

Minimum Experience: 2+

Required Education: Bachelor's Degree

Marketing Coordinator III (ID# [36046](#))

Saint Louis, MO

Category: Marketing

Job Type: Full Time

Minimum Experience: 3

Required Education: Bachelor's Degree

STRUCTURAL ENGINEER



Nova Group, Inc., an architectural and engineering firm in St. Louis County is seeking a candidate to fill the position of Director of Engineering. Candidate should possess a current PE license, in good standing, in the state of Missouri for civil engineering, structural. An SE license in Illinois is a plus. Candidate shall be proficient in AutoCadd, Microsoft Word and Excel. Revit capability is desired, but not required. The Director of Engineering would oversee the structural department for the company and be responsible for daily administration as well as some marketing of this aspect of the company. This is an opportunity to grow a division of the company and have major input as to how this aspect of the company functions. Future ownership of a portion of the company is possible. Nova Group, Inc. offers competitive salary, profit sharing, a 401(k) program which is funded by the company and health insurance. Hours are flexible.

Interested parties should send resumes to Scott D. Fehl, President, Nova Group, Inc. @ sfehl@novagroupinc.net or via US Mail to:

Scott D. Fehl, RA, President

Nova Group, Inc.

6312 Hazelwest Ct.

Suite 102

Hazelwood, MO 63042

Prairie Engineers, P.C. is seeking a Structural Engineer to join their team.

Prairie Engineers is a full services engineering, geospatial, and environmental science firm with a goal of delivering sustainable infrastructure solutions and maintaining our natural and built environment. We are a woman-owned firm with offices in Columbia, Hillsboro, Peoria, and Springfield, Illinois and Hazelwood, Missouri. The firm provides services to federal, state, and local governments, utilities, industries, and private businesses. Prairie Engineers is a growing company, looking to add a Structural Engineer to their team to assist primarily in the office with project planning, structural engineering design, and construction document development. This position will be a full time position with benefits and a competitive salary based on qualifications. This position is available to be filled in any of our office locations.

Essential Job Functions:

- Planning, design, and construction administration of transportation and building projects
- Ability to work both independently and as a team leader
- Focus on project delivery and customer service with attention to detail and deadlines

Minimum Qualifications:

- A minimum of five years' relevant design experience
- Current licensure as an Illinois Structural Engineer
- Good verbal and written communications skills
- Ability to work both independently and as part of a team
- Project a professional, positive attitude with a strong work ethic

Preferred Knowledge, Skills, Abilities, and Experience:

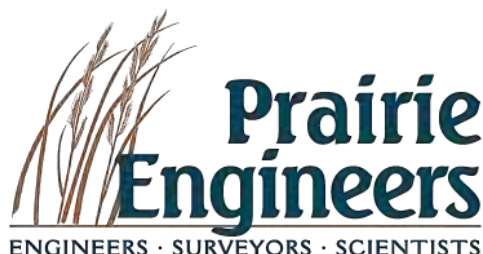
- Eight or more years of design experience
- Past project management experience
- Familiarity with Illinois DOT and CDB design standards, procedures, and requirements

We are an equal opportunity employer that recognizes the value of a diverse workforce. All qualified individuals will receive consideration for employment without regard to race, color, religion, creed, gender, national origin, age, handicap, marital status, veteran's status, sexual orientation, or any other legally protected status.

Preference will be given to applicants who reside in a HUBZone as defined by the US Small Business Administration. For a map of certified HUBZone areas, please refer to the following website:

<https://maps.certify.sba.gov/hubzone/map/>

For additional information regarding our company and benefits offered our employees, please visit our website at www.prairieengineers.com.



Opportunities Posted by Oates Associates, Inc.

Civil Engineer – Entry Level to 5+ years

We are seeking a project engineer to work in our Facilities Group on building and site development, drainage, utility, and campus development projects. Work will be out of our Collinsville, IL and/or our St. Louis, MO offices. Competitive salaries are offered commensurate to experience. The ideal candidate will possess the following attributes:

- Bachelors in Civil Engineering;
- EIT certificate or recently received PE license;
- 0 – 5+ years civil engineering experience;
- Work with both governmental and private clients in Missouri and Illinois is a plus;
- Working knowledge of AutoCAD Civil 3D – proficiency is a plus;
- Strong technical skills – presentation skills are a plus.

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and encourage women and minority candidates to apply for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com www.oatesassociates.com

Civil Engineer Project Manager

We are seeking a civil engineering project manager to work in our Facilities Group on building and site development, drainage, utility, and campus development projects. Work will be out of our Collinsville, IL and St. Louis, MO offices. Competitive salaries are offered commensurate to experience. The ideal candidate will possess the following:

- Bachelors in Civil Engineering – Masters is a plus;
- PE license;
- 5 - 15 years of experience working with both governmental and private clients in Missouri and Illinois;
- Proficient in AutoCAD Civil3D and Microsoft Office;
- Strong writing and presentation skills;
- Strong Technical skills in one or more of the following areas is a plus:
 - Hydrology and Hydraulics.
 - Development Review for Municipalities.
 - Multi-Use Path and Park Design.
 - Commercial Site Design.
 - Water and Sewer Design.

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and encourage women and minority candidates to apply for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com www.oatesassociates.com

Building Structural Engineer - Project Manager

We are seeking a structural engineering project manager to work in our Facilities Group on new building and building renovations projects. Work will be out of our St. Louis, MO and Collinsville, IL offices. Competitive salaries are offered commensurate to experience. The ideal candidate will possess the following:

- Bachelors in Civil Engineering or Architectural Engineering – Masters is a plus;
- PE license – SE license is a plus;
- 4 - 20 years of experience working with both governmental and private clients in Missouri and Illinois;
- Experience with structural steel, reinforced concrete, and/or masonry design;
- Proficient in AutoCAD and Microsoft Office;
- Working knowledge of structural engineering software – RAM, RISA, Revit;
- Working knowledge of building Codes – IBC, ASCE, ACI, and AISC.

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and encourage women and minority candidates to apply for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com www.oatesassociates.com

Transportation Engineer

Oates Associates is an established engineering practice offering civil and structural engineering services for transportation, site and building projects. To accommodate the continued growth in our transportation department, we are seeking engineers for Project Engineer positions. Work will be out of our Collinsville, IL and St. Louis, MO offices. The ideal candidate will possess the following:

- Bachelors in Civil Engineering – Masters is a plus;
- EIT certificate or PE license;
- 3-8 years of private or public agency engineering experience;
- Proficient in MicroStation / Geopak and Microsoft Office;
- Strong writing and presentation skills;
- Experience working with both local agency and DOT clients in Missouri and Illinois a plus;
- Strong Technical skills in one or more of the following areas is a plus:
 - Hydrology and Drainage Design.
 - Transportation Planning.
 - Highway and Local Road Design.
 - Traffic and Intersection Design.

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and welcome female, minority and veteran candidates for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com

www.oatesassociates.com

CIVIL ENGINEER Design – Capital Projects

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and is making a significant investment in capital infrastructure and asset sustainability over a multi-decade period.

The District is seeking an individual to fill a position within the Engineering Department - Design Division. This Project Manager position in the Capital Projects group will be responsible for coordinating the work of outside consulting firms. Duties will include, but not necessarily be limited to oversight of the design of storm, sanitary/combined sewers, and green infrastructure improvements; review plans, specifications and cost estimates; address concerns of impacted property owners; participation in meetings with public officials and the public at large to answer questions about the construction project; and other matters associated with the successful completion of the District's capital construction program.

Must be a graduate from a recognized college or university with major course work in civil engineering; and four years of progressively responsible related engineering experience, including at least two years of experience in sewer plan design and review and/or construction. Must be a licensed professional engineer in the Missouri or have the ability to become licensed within six (6) months of the date of hire.

Excellent compensation/benefits program. For more information and to apply go to www.stlmsd.com/careers under Civil Engineer.

Metropolitan St. Louis Sewer District

Human Resources
2350 Market St.
St. Louis, MO. 63103

EEO M/F/V/H

Editor's note: As of March 1 there are numerous engineering job opportunities posted at the above link.

To submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20th of the month prior to publication. Items may be sent via e-mail to Xiaomin (Sophie) You (ASCE newsletter editor) at xiaomin.you@wsp.com. **MS Word files are the preferred file type.** PDF files are also acceptable but may not look as sharp when inserted into the newsletter and hyperlinks might not carry through to the final version. For multiple page announcements, please consider providing a single-page flyer, concisely worded, with links provided to ancillary pages such as registration forms or other attachments. Also, please clearly include in the email subject line a concise title for the announcement and desired month(s) of publication.

Most news items will be available on the Section's Web Page, which can be reached via the link on ASCE National Website (www.asce.org). Click on "Geographical and International Units" to link to the Section or go directly to our page at: <http://sections.asce.org/stlouis/index.html>. The Section's Website Editor is Jeff Smith e-mail: JESmith@HNTB.com or via feedback directly from our website.

For more information and updates see our Web Page: [Http://sections.asce.org/stlouis/index.html](http://sections.asce.org/stlouis/index.html)

This newsletter will be sent to all Section members via e-mail. Delivery of the newsletter hardcopy by First Class mail will be made upon request. Members have the responsibility to keep their contact information in the ASCE national database up to date. Please note that the St. Louis Section is only provided with members' PRIMARY information on file at the Society level. To ensure that we can contact you, please edit your PRIMARY information to contain the information where you would like the section to contact you and how you would like your information to appear in our annual roster.

Please be sure to keep your PRIMARY contact information up-to-date by contacting ASCE at <http://www.asce.org>, or call 800-548-ASCE (2723).



ASCE – St. Louis Section
c/o The Engineering Center
4359 Lindell Blvd. St. Louis, MO 63108