

## October 2018

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### Upcoming Events

#### October

- 9 – ASCE October Luncheon
- 11 – YMG meeting
- 18 – EWRI webinar
- 25 – Electrical resistivity imaging workshop
- 27 – YMG trivia night

Follow the Section and share with your network.



## October Luncheon - TDI

Tuesday, October 9, 2018

Josephine Emerick, PE, Engineering Design Source, Inc (EDSI)

**Presentation Description:** The Northside-Southside Study was an 18-month effort, led by East-West Gateway Council of Governments, to study light rail transit investment in the corridor connecting Goodfellow and I-70 on the north side of St. Louis to Bayless and I-55 on the south side. The study builds on the recommendations of the 2008 Northside-Southside Study, confirming and verifying prior decisions and updating data where needed. A locally preferred alternative was recommended to and adopted by East-West Gateway's Board of Directors at their August 2018 meeting. This presentation will discuss the study process, the locally preferred alternative, and the next steps toward implementing the project.

**About the Presenter:** Josephine Emerick, PE is a vice president and senior project manager at Engineering Design Source, Inc (EDSI). Jo has over 25 years of transportation related experience including highway, transit and airport planning and design projects in Missouri, Kansas, Illinois and Iowa. Jo's project experience includes Metro's Moving Transit Forward Long-Range Plan, Providence Road for the City of Columbia, Illinois Route 336 Peoria-Macomb Corridor Study for the Illinois Department of Transportation and the Madison County Illinois Light Rail Feasibility Study for the East West Gateway Council of Governments, and numerous roadway and runway study and design projects for St. Louis Lambert International Airport. Jo worked on the Northside, Southside and West County Major Investment Analysis (2000), the Northside-Southside Transit Improvements Study (2008) and the Northside-Southside Light Rail Transit Corridor Conceptual Design Study (2018).

Jo received the ASCE St. Louis Chapter Professional Recognition Award in 2017 and the NSPE Distinguished Service Award in 2018. Jo is a licensed professional engineer in Missouri, Illinois and Kansas.

### Register Now!

#### Time, Date, Location

11:30am to 1:00pm, October 9, 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](mailto:info@engineersclub.net) for reservations by 5:00pm, Thursday, October 4, 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.

## Officers & Directors 2018 - 2019

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Horner & Shifrin, Inc.  
[cmschrand@hornershifrin.com](mailto:cmschrand@hornershifrin.com)

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Department of Civil Engineering  
Southern Illinois University Edwardsville  
[brent.vaughn.asce@gmail.com](mailto:brent.vaughn.asce@gmail.com)

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Horner & Shifrin, Inc.  
[jepettibone.asce@gmail.com](mailto:jepettibone.asce@gmail.com)

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[chr istoenjes@gmail.com](mailto:chr istoenjes@gmail.com)

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Lyle Simonton  
Subsurface Construction  
[lsimonton@subsurfacesconstruction.com](mailto:lsimonton@subsurfacesconstruction.com)

## President's Message



It is with great pride that I begin my term as ASCE – St. Louis Section President. Having just returned from the annual ASCE Presidents & Governors Forum in Reston, Virginia, I have a new appreciation for the many accomplishments of our section. The breadth and depth of our activities are repeatedly held up as an example of a successful chapter. This standard of excellence is directly attributed to the hard work of the Section Presidents who have preceded me. I particularly want to thank Lyle Simonton, current Past President, and Matt Harper, the prior Past President. Their efforts over the past few years have set a great example of what ASCE should be doing in our community.

While at the Forum, I also learned of the many exciting initiatives ASCE is working on to move our profession forward. These include the ASCE Grand Challenge which aims to reduce the life cost of infrastructure by 50% by 2025. More information can be found at [www.asce.org/grand-challenge/](http://www.asce.org/grand-challenge/).

ASCE has also announced two new student competitions. As you likely heard, AISC has withdrawn from its partnership with ASCE on the annual student steel bridge competition. While this has led to a change in the way we view our student involvement, it is also an opportunity for a new challenge for our student members. The first competition is the Sustainable Solutions Competition – Dog House Edition where students will be challenged to provide innovative and sustainable solutions to a common problem. The second competition is the Blue Sky Competition of Competitions where students will be challenged with developing a new student competition. This new competition may allow students to utilize new materials, design methodologies, and even create multidisciplinary teams for a more real world design example.

I also want to congratulate our award and scholarship winners which were presented at the ASCE Annual Dinner at the Moto Museum in September. Those who attended saw an entertaining presentation on the Project of the Year by Stan Polivick, Assistant Public Works Director for the City of Cape Girardeau on the South Sprigg Street Bridge Project, the Professional Recognition award presented to our EWRI Chair Robert Holmes, the Young Engineer Award presented to Siavash Zamiran, and the Service to the People Award presented to Thomas Sieckhaus.



ASCE President Robin Kemper & St. Louis Section President Chad Schrand

We also had another year of outstanding scholarship recipients. I was truly amazed hearing the impressive achievements of our talented student scholarship recipients and feel confident the future of civil engineering is in good hands.

I am excited for another productive year for the ASCE – St. Louis Section. Over the next year, we will further the momentum generated by our updated Report Card for Missouri’s Infrastructure as we continue our role as advocate for our infrastructure. We will improve our communication efforts to keep members aware of our activities and improve our outreach efforts to our student members as they transition from Student Member to Associate Member to full Member. We are always looking for volunteers to assist in these and other efforts of ASCE so please contact me if you have an interest in furthering our Mission.

Respectively,

Chad Schrand, PE, SE

[cmschrand@hornersshifrin.com](mailto:cmschrand@hornersshifrin.com)

## Committee Chair Openings

***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.”***

**Awards Committee** – The Awards Committee is responsible for coordinating the selection of local award recipients and candidates for Society award consideration. Responsibilities also include coordinating the presentation of new Life Members their certificates and pins.

**Career Guidance Committee** - The purpose of the Career Guidance Committee is to inform elementary, middle and high school students and staff about Civil Engineering. This information includes the requirements for becoming a civil engineer, and how civil engineers improve the quality of life for all citizens. The committee provides speakers and participates in Career Days, Shadowing Days, and other volunteering opportunities relating to Civil Engineering. They also maintain a database of school counselors, and keeps an inventory of materials (including brochures, pamphlets, videos) used by the Committee in their activities. The Society provides many resources and materials to be utilized by the Committee in their efforts.

## ASCE Sustainability Committee Announcement

ASCE Sustainability Committee of the St. Louis Section invites ASCE members to join the committee for increasing the sustainability activities in our section. Our scopes in the sustainability committee of ASCE St. Louis Section are:

- Providing sustainability resources for civil engineers in St. Louis Metro Area
- Applying sustainability principles to the engineering design, construction, and inspection
- Encouraging members to utilize Infrastructure Rating System developed by the Institute for Sustainable Infrastructure (ISI) and the Harvard Graduate School of Design
- Leveraging insight to ASCE Grand Challenge and the Innovation Contest
- Holding sustainability seminars and open discussions in our chapter

For joining the sustainability committee RSVP to the committee chair, Siavash Zamiran:

[szamiran@meacorporation.com](mailto:szamiran@meacorporation.com)

## Proposition D on the Nov. 6th Ballot

Proposition D is a state referendum to fund state law enforcement and maintenance for highways, bridges, roads and streets. If passed, Prop D will increase the motor fuel tax by 10 cents per gallon phased in over 4 years (2.5 cents per year) to pay for these improvements.

A robust transportation market is vital to a successful economy and also significant to the success of civil engineers. With that in mind, ASCE has contributed to the campaign supporting and has formally endorsed Proposition D.

Civil engineers working in design and construction of roads and bridges may take for granted that individuals in our work circles understand the importance of transportation investment. However, we all have friends or acquaintances in other areas of our lives that may not be aware of Prop D and what the referendum is about. Below are some quick facts that may be of use if Prop D or transportation investment comes up in conversation:

- Missouri is near the bottom - 49th in the nation - with a 17 cents per gallon motor fuel tax. And Missouri ranks 46th in the nation in revenue spent per mile.
- The current 17 cents per gallon state tax was established in 1996. Adjusted for inflation, today's 17 cents fuel tax is worth about 7 cents in 1996 dollars.
- For every 2.5 cents increase in the motor fuel tax, the average driver will spend an additional \$1.28 per month. When Prop D is fully phased in at 10 cents after four years, the average driver will spend \$5.10 per month for safer state roads and law enforcement. (source: <http://www2.modot.org/TransportationDollars/TransportationDollars.html>).
- Prop D will allow our state law enforcement to have the funding they need to be well equipped to protect drivers and respond to accidents across the state. And that will free up more than \$400 million annually that can be used for local and state roads and bridges.
- This funding will allow for accelerated progress on critical road and bridge projects.
- Prop D will provide more than \$123 million every year in new money for city streets and county roads and bridges.
- Prop D will provide more than \$288 million every year in new money to support the Missouri State Highway Patrol in keeping highways safe, while freeing up the same amount every year for MoDOT road and bridge projects.
- The website [www.safermo.com](http://www.safermo.com) contains more information on the details of Proposition D.

Voting decisions are very personal and we respect everyone's right to vote as they see fit. We encourage everyone to research Proposition D further to see how this investment in our infrastructure could provide benefit not only civil engineers but our region as a whole.

Please vote on November 6th! If you have questions, contact our Government Relations Committee Chair Dennis Boll at [dboll@geotechnology.com](mailto:dboll@geotechnology.com)

If you are not registered to vote, you can find more information on how to register [here](#).



### Share Our Prop D Video!

The ASCE St. Louis & Kansas City Section worked together to create a video promoting Proposition D with SPAG funding from ASCE Society. It's officially live on YouTube! Please watch & share with your friends, family, and colleagues. It can be shared across social media platforms, including Facebook, Twitter, LinkedIn, etc. & tracks all the views back to YouTube.

<https://www.youtube.com/watch?v=j4clSuGCgKw&t=3s>

We've shared it on our Section's LinkedIn page already:

<https://www.linkedin.com/company/asce-st-louis-section/>

*Please like, comment, and share to help us spread the message! While you're there, follow our page! Contact Alison Graves at [agraves@civildesigninc.com](mailto:agraves@civildesigninc.com) if you have questions.*



## ASCE St. Louis Section Annual Awards Dinner 2018

The 2018 Annual Awards Dinner was held on Friday, September 21 at the Moto Museum. Special thanks to Britt Marron, the Annual Dinner Chair for a wonderful evening at an incredible venue!

### ASCE ST. LOUIS SECTION SCHOLARSHIPS

The ASCE St. Louis Section Annual Scholarships are awarded in recognition of membership in an ASCE Student Chapter, enrollment as a civil engineering student, excellence in academic performance, and active participation in issues reflecting the role of engineers in the advancement of our society. Each of the Section's colleges is solicited for nominations. The scholarship awards were presented by Past President Matt Harper.

**Dylan McCloskey**  
**St. Louis University**



**Ryan Gueldener**  
**Southern Illinois University – Edwardsville**



**Daniel Davis**  
**University of Missouri – Columbia**



**Haley Hostetter**  
**Southern Illinois University – Carbondale**



**Taylor Husman**  
**Missouri University of Science and Technology**



### 2017 MIKE ALIZADEH / GEOTECHNOLOGY SCHOLARSHIPS

The Mike Alizadeh scholarship is awarded due to a generous endowment by the Alizadeh family, in recognition of pursuing a Master's Degree in Civil or Geological Engineering with a geotechnical or environmental emphasis at a Midwestern university. The scholarship awards were presented by President Lyle Simonton who is also the Alizadeh Scholarship Chairman.

**1<sup>st</sup> Place – Claire Stewart**  
**University of Arkansas**



**2<sup>nd</sup> Place – Victoria Watson**  
**Missouri University of Science & Technology**



**3<sup>rd</sup> Place – Martin Wallace**  
**University of Missouri – Columbia**



## PROFESSIONAL RECOGNITION AWARDS

### **2018 Professional Recognition Award Winner –**

**Robert Ray Holmes, Jr., Ph.D., P.E., F.ASCE, F.EWRI, D.WRE**

The Professional Recognition Award recognizes the importance of professional attainment in the advancement of the science and profession of engineering and is presented to a Member of the St. Louis Section of ASCE who has made substantial contributions to the engineering profession and the St. Louis Section. This year's Professional Recognition Award goes to Dr. Robert (Bob) Holmes.

Dr. Holmes has been a dedicated public servant with the United States Geological Society (USGS) for over 30 years and has taught as an adjunct professor of Civil Engineering at the Missouri University of Science and Technology for the last 10 years.

During his 30 years at the USGS, Dr. Holmes worked to help foster technical capacity and professionalism in the USGS workforce. One key example is his serving for over 25 years as the course coordinator and instructor for a Basic Hydraulics Principles short course, where he has trained well over 500 USGS engineers, scientists, and technicians in the study of open-channel hydraulics.

Dr. Holmes served as Director of the USGS Illinois Water Science Center from 1999 to 2008 with responsibility and oversight of USGS science and data activities throughout Illinois from 3 offices. In 2008, Dr. Holmes became the USGS National Flood Hazards Coordinator, a position that includes serving as a senior advisor to the USGS Director and Associate Directors on flood science issues, coordinating USGS response on major flood events such as Hurricanes Ike, Harvey, Marie and now Florence, and representing USGS externally on flood hazard issues with leaders in other international, federal, state, and local agencies, as well as to national media. In 2017, Dr. Holmes became Chief of the USGS Branch of Hydrodynamics while continuing his duties as the National Flood Hazard Coordinator. As the Chief of the Branch of Hydrodynamics, he oversees USGS research and scientific investigations in the areas of open-channel hydraulics, erosion, sedimentation, and geomorphology.

Dr. Holmes is an established expert in the fields of sediment transport, river mechanics, hydraulics and modeling, and providing expertise in complex streamflow ratings. He not only shares his expertise with other professionals and students, his ability to convey technical information has led to his being featured on the Discovery Channel, The Weather Channel, CNN, NBC, ABC, CBS, among others.

With ASCE, Dr. Holmes served as Past-President of the Mid-Missouri Section, is the current chair of the St. Louis Section of EWRI, and works on several technical committees. He developed and led the Rolla Water Resources Monthly Luncheon Series and ASCE EWRI St. Louis Section Monthly Webinar series. He is also active as a professional liaison to the Missouri S&T ASCE student chapter. In 2015, Dr. Holmes received the ASCE Government Civil Engineer of the Year Award.



**Dr. Robert (Bob) Holmes receives the Professional Recognition Award from President Lyle Simonton**

***2018 Young Engineer Award for Professional Achievement***  
***Siavash Zamiran, Ph.D., P.E., M.ASCE***

The Young Engineer Award recognizes professional contributions of younger members to the Society and to the St. Louis Section and is presented annually to a Member of the St. Louis Section of ASCE who is judged to have attained significant professional achievement, and who is less than 35 years of age. This year's Professional Recognition Award goes to Dr. Siavash Zamiran.

Dr. Zamiran earned a Bachelor's of Science in Civil Engineering in 2009 from Azad University in Sanandaj, Kurdistan, followed by a Master's of Science in Civil-Geotechnical in 2012. He then went on to earn his PhD in Engineering Science – Civil/Geotechnical Engineering from SIU-Carbondale in 2017.



**Dr. Siavash Zamiran receives the Young Engineer Award from President Lyle Simonton**

Since 2017, Dr. Zamiran has worked with Marino Engineering Associates, where he performs stability analyses of reinforced slopes and retaining walls, subsidence investigations, and computational structural analysis of high-pressure natural gas and petroleum pipelines affected by ground subsidence. He is also teaching as an adjunct professor at SIU-Edwardsville.

Academically, Dr. Zamiran has worked as a Research Assistant and collaborative researcher at Southern Illinois University, Carbondale and Edwardsville and Azad University, with research topics including Seismic investigation of cantilever retaining walls, investigation of deep foundations in swelling weathered rock, subsidence investigation of Illinois coal mines, investigation of the behavior of soil nail walls in seismic and static conditions and liquefaction studying of monopile foundation in wind turbines.

Dr. Zamiran has been active with ASCE including: Key Contacts; committee member with Geo-Institute Rock Mechanics Committee, Deep Foundations Committee, and Geophysical Committee; head of judges at ASCE Mid-Continent Student Conference, Geo Wall Competition, and founder and former president of SIUE Geo-Institute Graduate Student Organization where he was the instructor of 4 free public workshops in geotechnical engineering.

Other highlights include:

- Author and co/author of more than 30 conference and journal articles, one book, and reviewer of more than five journals.
- Notable awards received: International Association of Foundation Drilling Award, GeoConfluence Research Scholarship, and Itasca Education Partnership Award.
- Upon his graduation with a Ph.D. in Civil Engineering from Southern Illinois University Carbondale, he was awarded the Outstanding Graduate Student award

**2018 Service to People Award**  
**Thomas Sieckhaus, LEED AP**

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 St. Louis Section grants the Service to People Award to an individual who is judged to have performed significant service to the community in connection with planning, design or construction of the people serving works of the civil engineering profession. This year’s Service to People Award goes to Mr. Tom Sieckhaus.



**Service to People Awardee Tom Sieckhaus**  
**Photo credit: Clayco**

Tom has always been an engaged member of our profession, seeking the advancement of the students at Missouri S&T and being an active member of the Clayco leadership team. Interns and new engineers at Clayco express how the company works to develop their careers and also looks to be active in the profession and the community. Tom has been a leader in setting that corporate culture and does much of the heavy lifting that makes it actually happen.

Following the events in Ferguson MO in 2014, Tom wished to do more to improve the situation and our community. In response, Tom envisioned and initiated the Construction Career Development Initiative, CCDI. Tom has since poured his time, energy and support into building CCDI into a vehicle that will change lives and communities for generations to come. Through CCDI activities, Tom looks to engage students from underserved schools in professional engagement related to the construction industry. According to the CCDI Mission Statement:

*We connect youth in underserved communities with career opportunities in construction — from professional trades to college degree programs. Our communities are our partners. That’s why we devote our time, our energy, and our resources to efforts that support the areas where we operate and the people who live there. We’re working to build the future. We’re in it for the long haul.*

Perhaps the greatest benefit to our civil engineering profession in St. Louis is that he’s actively engaged the professional community and has 74 sponsors and collaborators in the CCDI programs. The programs engage the youth of the underserved high schools to gain mentoring and then engage in the construction profession. Tom oversees many of the mentoring and development activities personally, giving of his time, talent and philanthropy. Many students enter as trade apprentices with partner companies and those with the interest and academic drive necessary are entering into university education toward the profession of engineering or construction management. See some of the students’ stories at: <https://ccdi.org/spotlight/>

Tom was unable to attend the dinner, but will be honored and presented with his award at the November 13<sup>th</sup> ASCE Luncheon at the Engineering Center of St. Louis, so be sure to attend!



## PROJECT OF THE YEAR AWARD

### ***S. Sprigg Street Bridge Over Active Sinkholes***

Civil Engineering achievement within the St. Louis Section is recognized annually by ASCE with the selection of a “St. Louis Section Project of the Year Award”. The Award is given for achievement—not to an individual—so that the many individuals who have worked on the project are recognized as having contributed. 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”.

This year’s Project of the Year Award goes to the “S. Sprigg Street Bridge Over Active Sinkholes” project.

Horner & Shifrin completed the design and construction management of a replacement bridge on Sprigg St. over Cape La Croix Creek for the City of Cape Girardeau. The original bridge was constructed in the 1930s, with a cave developing under the bridge by 1991. In 1993, subsurface investigations began for a new replacement bridge, which was constructed in 1995. By 2007, sinkholes began forming, as many as 20 within 1,100 feet of the bridge. In 2008, the US Army Corps of Engineers, St. Louis District, prepared a Task Force Report, which evaluated the sinkholes that affect the road, bridge, rail line, buildings, quarry, cement plant, dairy farm, and utilities. By June of 2013, four new sinkholes developed at the bridge, destroying the north approach roadway and threatening the structural integrity of the north abutment by exposing piles, requiring closure of the bridge.

Sprigg St. is an important route connecting downtown Cape Girardeau with industrial and farming areas to the south, so the City hired Horner & Shifrin to design a solution to re-open the route. Horner & Shifrin teamed with Stantec and TSi Geotechnical, Inc. for geotechnical investigations and Civil Design, Inc. for survey. Construction management was provided by Robertson Contractors, Inc. out of Poplar Bluff, Missouri.



Project of the Year Award presented by President Lyle Simonton. Pictured to the right of Lyle:  
Engineer: Jim McCleish, P.E., Horner & Shifrin  
Owner: Stan Polivick, City of Cape Girardeau  
Contractor: Travis Slayton, Robertson Contractors

## INSTALLATION OF ASCE ST. LOUIS SECTION 2018-2019 OFFICERS



Officers sworn in for the 2018-2019 St. Louis Section Board by Region 7 Director Marsia Geldert-Murphey. Pictured left to right are: Chad Schrand (President), Brent Vaughn (President Elect), John Weiland (Secretary), Lyle Simonton (Past President), Melissa Marks (Director of Professional Development), Christopher Toenjes (Director of Tech. Development). Not pictured: Jordan Pettibone (Vice President), Alison Graves (Treasurer), Melantha Norton (Director of Administration & Region 7 Governor).



Passing of the gavel from Lyle Simonton to Chad Schrand

## Younger Member Group Update

*With the year just getting started, we don't have much to report this month, but here are a few quick updates. We are so excited for a new year and ready to dig in! If you have a new (or old) co-worker 35 or younger, invite them out to the first meeting!*

**Annual Dinner** – We love getting to see our YMs representing at the Section's Annual Dinner. Congratulations to all the scholarship and award winners during this year's annual dinner. Special congratulations to YM Siavash Zamiran on winning the Younger Engineer for Professional Achievement award! So glad to have you representing the YMG and Section. Thanks to the Annual Dinner and Awards Committees for yet another fantastic evening.



**A few of our YMs with a couple past Section presidents.**

**Trivia Night** – The trivia night is quickly approaching, but there is still time to reserve tables! Tables must be reserved in advance online or with Alyssa. If you're interested in helping during trivia or joining the Trivia Night Committee, please contact Alyssa Davis, this year's Trivia Committee Chair, at [Alyssa.Davis2@aecom.com](mailto:Alyssa.Davis2@aecom.com).

**Just a couple weeks until the first meeting of the fall! We hope to see you there!**

### **October YMG Meeting:**

Thursday, October 11, 2018

Urban Chestnut

4465 Manchester Ave, 63110

6 pm to 8 pm

<http://urbanchestnut.com/home/>

*See the following page to get our full list of meetings this year!*

# YMG 2018-2019 Calendar

\*Subject to change throughout the year

## **October YMG Meeting:**

Thursday, October 11, 2018

Urban Chestnut

4465 Manchester Ave, 63110

6 pm to 8 pm

<http://urbanchestnut.com/home/>

## **November YMG Meeting:**

Thursday, November 8, 2018

Hotshots

1319 Central Park Dr, 62269

6 pm to 8 pm

## **December YMG Meeting:**

Thursday, December 13, 2018

International Tap House

16 S. Euclid Ave, 63108

6 pm to 8 pm

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

## **January YMG Meeting:**

Thursday, January 10, 2019

Flannery's Pub

1320 Washington Avenue, 63103

6 pm to 8 pm

<http://flanneryspub.com/>

## **February YMG Meeting:**

**Tuesday**, February 12, 2019

The Lake House

2822 N. Center St., 62062

6 pm to 8 pm

## **March YMG Meeting:**

Thursday, March 14, 2019

Fieldhouse

510 N Theresa Avenue, 63103

6 pm to 8 pm

<http://fieldhousestl.com/>

## **April YMG Meeting:**

Thursday, April 11, 2019

McGurk's

1200 Russell Blvd, 63104

6 pm to 8 pm

<http://www.megurks.com/>

## **May YMG Meeting:**

Thursday, May 9, 2019

Start Bar

1000 Spruce Street, 63102

6 pm to 8 pm

<http://startbarstl.com/>



**SATURDAY, OCTOBER 27, 2018**

**DOORS OPEN at 6:30 - TRIVIA STARTS at 7**

**ENGINEERING CENTER**  
**4359 Lindell Blvd, St. Louis, MO 63108**

**Hosted  
by:**

**ASCE**

AMERICAN SOCIETY OF CIVIL ENGINEERS  
ST. LOUIS YOUNGER MEMBER GROUP

**TRIVIA  
NIGHT**

All proceeds help fund ASCE St. Louis Younger Member Group  
Activities: Operation Food Search, Rebuilding Together, and more!



**50/50  
Raffle!**

**Complimentary  
Water & Soda!**

**Silent Auction!**

**Door Prizes!**

**Tables of 8  
\$160**

**FOR MORE INFO:**  
Alyssa Davis  
(314) 802-1140  
[alyssa.davis2@aecom.com](mailto:alyssa.davis2@aecom.com)





### **EWRI St. Louis Monthly Speaker Series Event**

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, October 18, 2018 at 11:30 am-12:30 pm**. This presentation will be broadcast live over a webinar. Registration is free to ASCE members, **Advance registration is required by Noon Monday, October 15, 2018.** Please register online in advance at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBaIpaOJF2ZFROB4ng/viewform?c=0&w=1>  
Registrants will receive detailed login & dial-in information or directions for in-person attendance prior to the event.

### **Attacking Inflow and Infiltration (I/I) on the Private Side: A Tale of Two Cities**

**Jeff Shiner, MS, PE, Cliff Cate, MS, PE, Dustin Hill, PE, ENV SP, Andy Shively**

While St. Louis and Kansas City share a state and a common goal of removing inflow and infiltration (I/I) from their wastewater collection systems, they have taken vastly different approaches to evaluating and removing I/I from the private sector. With both programs being successful in their own right, we are going to take a look at the different approaches and the results both programs have received. From the philosophy of each program, whether mandatory vs voluntary, to the disconnection process, bid vs unit cost, the programs have differed but again have been very successful.

#### **Speakers:**

**Jeff Shiner, MS, PE** Jeff has been with the Metropolitan St. Louis Sewer District for 20 years working in the Program Planning Department. He is the Principal Engineer for Modeling and the District's Project Manager for the Gage Adjusted Radar Rainfall Data and Design Storm Development Projects.

**Cliff Cate, MS, PE** Cliff currently works for Burns & McDonnell and has more than 23 years of experience managing a wide range of local and national water and wastewater projects, including master plans, combined and separate sewer assessment programs and several private I/I reduction programs. Cliff is currently serving as the project manager for Kansas City's Private I/I Reduction Program, Keep Out the Rain (KOTR). As part of this program, over 60,000 parcels will be evaluated, with an estimated 6,000 I/I sources to be disconnected by 2023.

**Dustin Hill, P.E., ENV SP** Dustin Hill serves as a Senior Civil Engineer and Project Manager in Burns & McDonnell's Water Group in St. Louis. Mr. Hill has over thirteen years of experience serving private and public-sector clients with technical experience in Private and Public Inflow and Infiltration (I/I) Reduction Program Management, hydraulic modeling, sanitary and stormwater collection system design and wastewater master planning.

**Andy Shively** Andy Shively has served the City of Kansas City for 23 years in a variety of roles which have included direction of Kansas City's \$1.78 billion Capital Improvement Program, a 5-year investment across Kansas City's water, wastewater and stormwater utilities. Andy currently leads Kansas City's 25-year, \$4.5 billion Smart Sewer program as the Special Assistant City Manager for the City of Kansas City, Missouri. The Smart Sewer program is the largest infrastructure investment in the history of Kansas City and is considered a national example of innovation, leadership and data-driven solutions.

Thank you to our joint seminar sponsor, **EDM Incorporated!**

Please contact **Len Madalon** ([ljm@edm-inc.com](mailto:ljm@edm-inc.com)) with any questions, if you are interested in presenting, or have an idea for a topic.

## ASCE/MSPE November Joint Luncheon

Missouri Society of Professional Engineers and American Society of Civil Engineers

### November Joint Luncheon Tuesday, November 13, 2018

#### The Good Side of the City – Outstanding St. Louis Engineer Stories

**Abstract:** This Luncheon will highlight two historic local Engineers.

**Wesley W. Horner** was a prominent civil engineer specializing in urban hydrology and hydraulics. He was described as one of “the three wise men” in the 1930’s hydrology by Victor Mockus, another prominent engineer of that era. He was President of ASCE (1946) and the Wesley W. Horner Award was instituted in his honor in 1968 to recognize papers that make valuable contributions to the profession in the disciplines of hydrology, urban drainage, or sewerage. Highlights of the presentation include: Mr. Horner’s design of the River Des Peres Drainage Project; His research and technical papers on the subject of rainfall and runoff; His work for St. Louis’ Lambert Field which acquired for Mr. Horner a national reputation as an expert in airports and airport drainage.

**Leif J. Sverdrup** was an outstanding Missouri Civil and Military Engineer and Bridge Builder. In 1928 he and his former civil engineering Professor John I. Parcel formed Sverdrup & Parcel Consulting Engineers. In Oct. 1941, the War Department hired Sverdrup & Parcel to work across the Central Pacific. By the end of the war MacArthur personally decorated Major General Leif Sverdrup with the Distinguished Service Cross stating, “This is the engineer soldier at his best.” In the 1960s, Sverdrup Civil managed the design and construction of the parallel trestles of the Chesapeake Bay Bridge-Tunnel (CBBT). The CBBT was the largest in the world after completion. In 1976 Leif J. Sverdrup died, his obituary and picture were on the cover of the *St. Louis Post Dispatch* titled, “Gen. Sverdrup Dies; Civic and Business Leader.”

#### About the Presenters:

**Steven Randolph, PE:** Steve is a 23-year employee of Horner & Shifrin where he began his career in St. Louis after graduating from Washington University with a degree in Civil Engineering. In 2001, he received his MBA from Webster University. In 2015, Steve moved to Chicago to help open a branch office there. He is on the Board of EWRI’s Chicago Chapter and his ASCE duties have included a term as President of the St. Louis Section, chairperson of that Section’s Diversity and Inclusion Committee, and a participant in ASCE’s Legislative Fly-In. He is a Certified Professional in Erosion and Sediment Control (CPESC) and a member of the Illinois Association for Floodplain and Stormwater Management.

**Michael T. Buechter, PE, D.WRE:** Michael is a Program Manager with the Metropolitan St. Louis Sewer District. He joined the District in 2003 and has been involved in the Municipal Separate Storm Sewer System (MS4) Program, Green Infrastructure, trenchless technology and private inflow reduction projects. Michael received his BSCE degree from Missouri S&T and his MSCE degree from Oklahoma State University. He is a past Director of the Engineers’ Club of St. Louis, Past-President of the local section of ASCE, Past-Chairman of the local chapter of EWRI and current President of the St. Louis Chapter of the Missouri Society of Professional Engineers as well as a member of the EWRI of ASCE Governing Board.

#### Time, Date, Location

11:30am to 1:00pm, November 13, 2018, at the Engineering Center, 4359 Lindell, St. Louis 63018. Registration starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm. One (1) PDH is available.

#### Cost

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

**Registration details to follow**



**GEO-  
INSTITUTE**  
St. Louis Chapter



**STRUCTURAL  
ENGINEERING  
INSTITUTE**  
St. Louis Chapter

# Geo-Structures Confluence

Friday, November 2, 2018

St. Charles Convention Center – St. Charles, Missouri

Registration is open for the third annual Geo-Structures Confluence, hosted by the St. Louis Chapters of SEI and GI. This one-day conference is open to all, and will be held from 8 a.m. to 5 p.m.; registration opens at 7:15 a.m., with a continental breakfast and buffet luncheon provided. Attendees will earn up to 7 PDHs.

### Agenda includes:

- G-I Cross USA Lecture, Evaluation of Axial Pile Response for Load-Displacement-Capacity and Load Transfer Using Seismic Piezocone Tests – Dr. Paul Mayne, Georgia Institute of Technology
- Newly Renovated Arch Grounds and Museum
- Forensic Strategies that Illuminate the Root Causes of Problems on Construction Projects – Ben Cornelius, LERA Consulting Structural Engineers
- Modified SPT-Based Drilled Shaft Design Methods for Weak Rock – Dr. Tim Stark, University of Illinois
- 150 North Riverside: Elevated, Anchored, and Tuned – Rob Chmielowski, MKA
- Evolution of Compaction for Sustainable Infrastructure – Dr. David Rogers, MS&T
- Evaluation and Repair of Tornado Damage to a Large Manufacturing Plant – Kevin Mesyef and Dan Turner, ESI
- Blast Induced Liquefaction Testing in the New Madrid Seismic Zone – Dr. Richard Coffman, University of Arkansas
- Externally-Bonded Composite Systems for Repair & Strengthening of Concrete Structures – Nehal Patel and Chad Eades, Simpson Strong Tie
- 5th Line to Jerusalem Water Supply Tunnel - Solutions to Ground Condition Problems in a TBM Tunnel – Mark Sandfort, Golder Associates
- Evaluation of the Structural Failure of Three Retaining Walls – Randall Bernhardt, ESI
- Illinois State Capital Renovations – Dennis Wilkinson, Hanson Professional Services, Inc.

Registration Class	Early Rate by Friday, October 12	Regular Rate October 13 to 26 and walk-ins	Late Rate October 27 through November 2
Professional	\$195	\$250	\$280
Full-time Students	\$75	\$100	\$110
Exhibitor (includes 1 registration)	\$450	\$450	\$450

Meal and break sponsorships are available, in addition to exhibitor opportunities. Please contact Lyle Simonton ([lsimonton@subsurfaceconstructors.com](mailto:lsimonton@subsurfaceconstructors.com), 314-421-2460 x101) to discuss these options.

Please register at <https://goo.gl/NKGYR8> (case sensitive).

Postmark checks by October 12 to register at the early rate, and October 26 for all other registrations.

Vegetarian and other meal options are available. Please contact Stephanie Spann ([sspann@davidmason.com](mailto:sspann@davidmason.com)) with your request.

*Refunds must be requested before Friday, October 19, 2018. Any refund will be subject to a 15 percent cancellation fee. Registration may be transferred to another person by advanced email notice to Stephanie Spann ([sspann@davidmason.com](mailto:sspann@davidmason.com)) and Greg Hempen ([hempen69@sbcglobal.com](mailto:hempen69@sbcglobal.com))*



## The 61st Annual Missouri S&T Asphalt Conference



### **61<sup>st</sup> ANNUAL MISSOURI S&T ASPHALT CONFERENCE** **November 27-28, 2018**

The 61<sup>st</sup> Annual Missouri S&T Asphalt Conference will be held on Tuesday and Wednesday, November 27-28, 2018, at the Missouri University of Science & Technology in Rolla, Missouri.

Presentations at the conference include: pavement evaluation, rating, & treatments for municipalities; full-depth reclamation in Missouri; trackless tack; RAP quality; Pavement Preservation & Recycling Alliance; overlay bond testing; best paving practices for small-scale operations; intelligent compaction update; paving machine maintenance; MoDOT's increased density initiative-Phase II; next-generation plants, software, and training; basic quarry operations; performance-related specifications; MAPA update; effects of polyphosphoric acid on asphalt & additives; full implementation of M332 binder specification; performance testing in Missouri; rubberized chip seals, and more.

The conference should be of interest to paving contractors, public agencies, consulting engineers, testing labs, aggregate producers, asphalt binder suppliers, and equipment technical reps. **Personal Development Hours (PDH) will be awarded.**

For conference program information go to <http://asphalt.mst.edu/> or contact Dr. Dave Richardson, Conference Director (573-341-4487; [richarddd@mst.edu](mailto:richarddd@mst.edu)) and for registration information contact Professional and Continuing Education, 216 Centennial Hall, Missouri S&T, Rolla, MO, 65409 (573-341-6222; [pce@mst.edu](mailto:pce@mst.edu)). If you are interested in being a sponsor, please contact Professional & Continuing Education: (573-341-6222; [pce@mst.edu](mailto:pce@mst.edu)).



## Electrical Resistivity Imaging Workshop

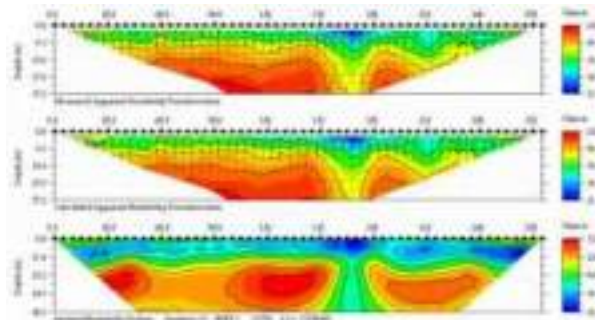
Electrical Resistivity Imaging Workshop  
hosted and organized by

ASCE Geo-Institute Student Chapter  
Southern Illinois University Edwardsville

The **SIUE ASCE Geo-Institute Student Chapter** is offering a free\* one-day training seminar and workshop on the SIUE campus focusing on Electrical Resistivity Imaging (ERI). This introductory ERI seminar is designed for those professionals who are involved in, beginning to consider, or have oversight/review responsibilities of others currently conducting DC Resistivity or IP imaging surveys. This seminar will cover DC Resistivity and IP imaging topics such as: ERI theory; data acquisition; field procedures; data processing; data presentation and interpretation. A field demonstration is planned to be set up at an on-campus field site (weather permitting).

### Workshop Agenda Topics

- Introduction
- Basic Electrical Resistivity Imaging theory
- Instrumentation
- Preparing for a field survey
- Electrical resistivity case histories
- Resistivity Imaging methods
  - o Resistivity Imaging Theory
  - o Survey Design
  - o Discussion of Resistivity data interpretation
- Field survey and field acquisition discussion
- Downloading data with real time QC
- Data processing with 2D and 3D data processing software



concepts and

**5 PDH credits may be earned by participating in this event.**

**When:** Thursday, October 25<sup>th</sup>, 2018, 9 am – 4:00 pm

**Where:** SIUE campus (more details at the RSVP link below)

**Cost:** Free, but \*hourly parking fees apply.

**RSVP is required:** <https://goo.gl/forms/XtHZBnCHkmEKUWeJ2>

The number of participants is limited and will be filled based on information provided through the RSVP link above. Interested individuals may contact Mr. Brent Vaughn ([bvaughn@siue.edu](mailto:bvaughn@siue.edu)) or Dr. Abdolreza Osouli ([aosouli@siue.edu](mailto:aosouli@siue.edu)) for more information.

## Professional Engineer Refresher Course

These review courses are geared toward helping participants pass the Professional Engineer (P.E.) license exam. Spring classes will be held in the fields of:

- Civil- Water Resources, Geotechnical; Transportation, Construction, Structural;
- Mechanical-Mechanical Systems/Materials, Hydraulics & Fluids, Energy & Power Systems, HVAC/Refrigeration; and
- Electrical-Power

Course fee includes a three-ring binder, lecture notes, certificate of completion, and CEU's.

It is recommended that participants purchase their discipline's desk reference manual prior to the first class.

Desk reference manuals can be obtained by going to the following website: <http://ppi2pass.com>

**Deadline for Registration:  
Wednesday, January 24, 2019**

### ***How to Enroll – 4 Ways to Register:***

1. **Online** – To register online, go to [www.stchas.edu/learnforlife](http://www.stchas.edu/learnforlife)

2. **By Mail** – Complete the registration form, attach your check or money order, and mail to:  
SCC, Division of C&CD  
4601 Mid Rivers Mall Dr., HUM 103  
Cottleville, MO 63376-2865

3. **In Person** – Walk into 103 HUM with completed registration form and payment.  
Registration hours:

- 8 a.m. – 5:30 p.m. Mon-Thurs.
- 8:30 a.m. – 4:00 p.m. Fridays
- After-hours drop box in HUM hallway

4. **By Phone** – Call 636-922-8233 during the hours listed above. Telephone registration: VISA, Discover, and MasterCard only accepted as payment.

Registration Fee:

\$550 for MSPE & SAME members

\$600 for ASCE, ASME, ASHRAE & IEEE members

\$650 for non-members

Course content inquiries should be directed to

**Lisa Cheng, P.E.**

(314) 425-8355 or

[lisa.cheng@hdrinc.com](mailto:lisa.cheng@hdrinc.com)

For more details, please see the [Brochure here](#).



## SIUE FALL 2018 FE REVIEW SESSIONS\*

<u>Date</u>	<u>Subject</u>	<u>Instructor</u>	<u>Time</u>	<u>Place**</u>
Mon. 10/01/18	Computational Tools	Prof. Vaughn	4:30 – 6:00 PM	EB 0160
Wed. 10/03/18	Surveying/Construction	Prof. Sherrill	7:00 – 8:30 PM	EB 0160
Mon. 10/08/18	Statistics/Math	Dr. Chew	4:30 – 6:00 PM	EB 0160
Wed. 10/10/18	Statics	Dr. Fries	4:30 – 6:00 PM	EB 0160
Mon. 10/15/18	Engineering Materials	Dr. Huang	4:30 – 6:00 PM	EB 0160
Wed. 10/17/18	Mechanics of Solids	Dr. Panahshahi	6:15 – 7:45 PM	EB 0160
Mon. 10/22/18	Structural Analysis	Dr. Cross	4:30 – 6:00 PM	EB 0160
Wed. 10/24/18	Engineering Economics	Dr. Eneyo	6:15 – 7:45 PM	EB 0160
Mon. 10/29/18	Hydraulics/Hydrologic Systems	Dr. Benjankar	4:30 – 6:00 PM	EB 0160
Wed. 10/31/18	Environmental Engineering	Dr. Zhou	4:30 – 6:00 PM	EB 0160
Wed. 10/31/18	Geotechnical Engineering	Dr. Osouli	6:15 - 7:45 PM	EB 0160
Wed. 11/07/18	Transportation Engineering	Dr. Qi	4:30 – 6:00 pm	EB 0160
Wed. 11/07/18	Dynamics	Dr. Yan	6:15 – 7:45 PM	EB 0160
Mon. 11/12/18	Structural Design: Concrete	Dr. Panahshahi	4:30 – 6:00 PM	EB 0160
Wed. 11/14/18	Fluid Mechanics	Dr. Celik	6:15 – 7:45 PM	EB 0160

\* IF YOU WISH TO BE INCLUDED IN A GROUP ORDER OF FOR PURCHASING A *CIVIL/MECHANICAL/INDUSTRIAL ENGINEERING FE REVIEW MANUAL (PUBLISHED BY BRIGHTWOOD ENGINEERING EDUCATION)* FOR A SPECIAL DISCOUNT RATE OF \$60 AND SAVE ON SHIPPING COST, PLEASE EMAIL MR. CLINT REILSON, CHI EPSILON EDITOR OF THE TRANSIT, AT [CLREILS@SIUE.EDU](mailto:CLREILS@SIUE.EDU), OR DR. PANAHSHAHI, CHI EPSILON FACULTY ADVISOR, AT [NPANAHS@SIUE.EDU](mailto:NPANAHS@SIUE.EDU) OR BY WEDNESDAY, SEPTEMBER 26, 2018.



ALL SESSIONS ARE FREE TO CURRENTLY ENROLLED SIUE STUDENTS AND COST \$10 PER SESSION FOR OTHERS. FOR MORE INFORMATION, PLEASE ALSO CONTACT DR. PANAHSHAHI AT (618) 650-2819 OR [NPANAHS@SIUE.EDU](mailto:NPANAHS@SIUE.EDU).

\*\* All sessions are held in Engineering Building at Southern Illinois University Edwardsville

## Employment



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 transportation, buildings, 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.

WSP provides a progressive mix of benefits including medical, dental, 401k and long term disability focused on a providing health and financial stability throughout the employee's career.

At WSP, we want to give our employees the challenges they seek to grow their careers and knowledge base. Your daily contributions to your team will be a key piece in our meeting client objectives, goals and challenges, are you ready to get started? Learn more about us at [www.wsp.com/usa](http://www.wsp.com/usa)

### **Senior Construction Inspector (ID# 38341)**

St. Louis, MO

[http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job\\_number=38341](http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job_number=38341)

Minimum Experience: 4+

Required Education: Associate's Degree

Be involved in projects with our Geotechnical & Tunneling Team and be a part of a growing organization that meets our client's objectives and solves their challenges. WSP is currently initiating a search for a Senior Construction Inspector for our St. Louis, Missouri office, with initial assignments on a major tunnel construction program.

Duties and Responsibilities:

- Daily interaction with contractor foreman and supervisors.
- Read and interpret project plans and specifications, monitor and document contractor activities for compliance with project documents.
- Measure, calculate, and document quantities of installed materials in accordance with client policies and procedures.
- Provide general inspection on construction labor and subcontractor work to assure a good and workmanlike operation.
- Monitor quality control and quality assurance field testing for concrete, steel, soil and other materials, as applicable.
- Prepare inspector daily reports in accordance with the project requirements.
- Represent projects at meetings and conferences.
- Perform other field inspection duties, as assigned.

### **Civil Engineer (ID# 36862)**

St. Louis, MO

[http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job\\_number=36862](http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job_number=36862)

Minimum Experience: 0-1

Required Education: Bachelor's Degree

Be involved in projects with our St. Louis Civil Team and be a part of a growing organization that meets our client's objectives and solves their challenges.

Duties and Responsibilities:

- Actively contribute to the overall success of transportation infrastructure projects in Missouri, including projects with the Missouri Department of Transportation, municipalities, and other agencies throughout the State
- Perform preliminary and final engineering
- Perform highway geometry design
- Produce maintenance of traffic plans



- Perform hydraulic and drainage design
- Perform traffic engineering analysis
- Prepare estimates of quantities and costs
- Prepare engineering reports
- Provide assistance with the production of plans
- Utilize civil engineering design software, such as Microstation and GeoPAK
- Collaboration within project teams and allow for mentor-protégé relationships with more senior staff to help develop your career

**Lead Structural Engineer (ID# 37857)**

St. Louis, MO

[http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job\\_number=37857](http://search0.smartsearchonline.com/pb/jobs/jobdetails.asp?job_number=37857)

Minimum Experience: 8+

Required Education: Bachelor's Degree

WSP has proven to be a world leader in transportation engineering by consistently providing quality services in planning, design, construction management, and program management for a multitude of clients across the globe. Our St Louis, Mo office is seeking a bridge design engineer who is enthusiastic and interested in joining an established structural engineering group from other offices and potentially provide project management, marketing assistance, structural designs, calculations and plans for bridges, retaining walls, and miscellaneous structures for transportation projects. Our St Louis office is a multi-disciplinary group of over 60 engineers, architects and planners that enjoy working collaboratively around the state and beyond to deliver high-profile and exciting projects spanning all major markets including highways, transit, ports, aviation, tunnels and bridges.

**Position Requirements:**

- Licensed Professional Engineer in MO.
- Bachelors of Science in Civil Engineering from an accredited program.
- Technical Knowledge in structural design and analysis.
- Minimum of 8 years experience in structural design with majority in transportation.
- Permanent ability to immediately work in this country is required.
- Strong verbal and written communication skills.
- Experience with Missouri Department of Transportation and local clients
- Client and business development experience
- Project management experience is a plus

**Preferred Qualifications and Experience:**

- Master Degree in Civil Engineering with a structural focus is a plus.



Horner & Shifrin, Inc. is a Federal Contractor, Equal Opportunity Employer M/F/Disability/Veteran. We are a 100% Employed Owned firm, offer a generous benefits package and has been named a 2017 Top Workplace by the St. Louis Post-Dispatch. If you are interested, please apply through our website at [www.hornershifrin.com/careers](http://www.hornershifrin.com/careers). Visits and phone calls will not be accepted. Learn more about us at [www.hornershifrin.com](http://www.hornershifrin.com).

## **Building Structural Project Manager - St Louis**

**YEARS OF EXPERIENCE:** 7-10 YEARS

Horner & Shifrin is seeking a driven and goal orientated Building Structural Engineer for the growing Building Services Structural Team. The selected candidate will work with clients and project teams on the design, analysis, and evaluation of structural systems in steel, concrete, timber, and masonry. The ideal candidate will be eager for opportunities in professional and client development.

### **POSITION REQUIREMENTS:**

- Licensed PE, SE preferred
- Ability to perform complex design calculations
- Ability to create construction documents (plans & specifications)
- Proficient in AutoCAD, Revit Structure, Ram Structural System, and structural analysis software
- Excellent verbal and written communication skills
- Must possess a valid driver's license
- Must be able to pass a background check
- Team player

**EDUCATIONAL REQUIREMENTS:** M.S. in Civil Engineering with an emphasis in Structural Engineering.

**SALARY RANGE:** Salary will commensurate with experience.

## **Business Development Manager - St Louis**

Horner & Shifrin is seeking an experienced driven and goal orientated Business Development Manager for the growing Business Development Team. The selected candidate will be responsible for securing new business opportunities as well as maintaining existing business. The ideal candidate will work closely with and support the leaders in the firm to maximize the effectiveness of client relations.

### **POSITION REQUIREMENTS:**

- Comprehensive knowledge of firm's practice, clientele, goals, policies and procedures.
- Excellent leadership/managerial and mentoring/teaching skills.
- Possess strong business development skills with a proven record of accomplishment of selling on value and building relationships.
- Must possess a high level of professionalism and interpersonal skills to be able to work well with employees at all levels within the organization and maintain all information in strict confidence.
- Must possess attention to detail, ability to balance multiple projects and have strong time management skills.
- Follow through in a consistent manner
- Valid driver's license
- Must pass a background check

**EDUCATIONAL REQUIREMENTS:** Bachelor degree in Business or related field.

**SALARY RANGE:** Salary will commensurate with experience.

## **Transportation Project Engineer**

**CLASSIFICATION:** FULL-TIME

**OFFICE LOCATION:** O'Fallon, IL; Chicago, IL

**YEARS OF EXPERIENCE:** 2-10 YEARS

Horner & Shifrin is seeking a full-time Transportation Project Engineer. This position requires 2-10 years of experience. This position is assigned specific, high-responsibility-level tasks on project teams; and are expected to resolve engineering/architectural problems and tasks as they are assigned; with help as needed, from more experienced staff.

**POSITION REQUIREMENTS:**

- Candidate will work under licensed engineer
- Will be trained/proficient in the use of Microstation and Geopack or AutoCAD Civil 3D
- Ability to produce construction bid documents (plans and specifications)
- Proficiency using Microsoft Office software (Outlook, Excel, Word)
- Other duties as assigned

**EDUCATIONAL REQUIREMENTS:** B.S. in Civil Engineering

**SALARY RANGE:** Salary will commensurate with experience.

## **Transportation Project Engineer**

**CLASSIFICATION:** FULL-TIME

**OFFICE LOCATION:** St Louis, MO

**YEARS OF EXPERIENCE:** 5-10 YEARS

Horner & Shifrin is seeking a full-time Transportation Project Engineer. This position requires 5-10 years of experience. This position is assigned specific, high-responsibility-level tasks on project teams; and are expected to resolve engineering/architectural problems and tasks as they are assigned; with help as needed, from more experienced staff.

**POSITION REQUIREMENTS:**

- Candidate will work under licensed engineer
- Will be trained/proficient in the use of Microstation and Geopack or AutoCAD Civil 3D
- Ability to produce construction bid documents (plans and specifications)
- Proficiency using Microsoft Office software (Outlook, Excel, Word)
- Other duties as assigned

**EDUCATIONAL REQUIREMENTS:** B.S. in Civil Engineering

**SALARY RANGE:** Salary will commensurate with experience.

## **Transportation Engineer**

**CLASSIFICATION:** FULL-TIME

**OFFICE LOCATION:** St Louis, MO

**YEARS OF EXPERIENCE:** 0-5 YEARS

Horner & Shifrin is seeking a full-time Transportation Engineer. This is an entry-level position and requires 0-5 years of experience. This position is assigned specific tasks on project teams; and is expected to resolve engineering problems and tasks, as needs arise; with help, as needed, from more experienced staff.

**POSITION REQUIREMENTS:**

- Candidate will work under licensed engineer
- Will be trained/proficient in the use of Microstation and Geopack or AutoCAD Civil 3D
- Ability to produce construction bid documents (plans and specifications)
- Proficiency using Microsoft Office software (Outlook, Excel, Word)
- Other duties as assigned

**EDUCATIONAL REQUIREMENTS:** B.S. in Civil Engineering

**SALARY RANGE:** Salary will commensurate with experience.

## **Transportation Project Manager**

**CLASSIFICATION:** FULL-TIME

**OFFICE LOCATION:** CHICAGO, IL

**YEARS OF EXPERIENCE:** 10+ YEARS

Horner & Shifrin is seeking a full-time Transportation Project Manager. This position requires 10+ years of experience. This position is assigned specific, high-responsibility-level tasks on project teams; and are expected to resolve engineering/architectural problems and tasks as they are assigned; with help as needed, from more experienced staff.

### **POSITION REQUIREMENTS:**

- Licensed professional engineer in Illinois
- Interact and communicate with clients, vendors and staff of all levels
- Ability to lead, manage and schedule staff to meet project needs
- Proficiency using Microsoft Office Products (Word, Excel, Access)
- Experience using at least one CADD platform (MicroStation or AutoCAD)
- Knowledge of at least one highway design package (Geopak SS4 or Civil3D)
- Critical thinking and analysis
- Perform transportation engineering analyses and calculations
- Prepare and write engineering and other reports
- Strong client relationships and ability to develop business
- Field visits on rough terrain per project needs
- A valid driver's license and the ability to drive to and from job sites.
- Other duties as assigned

### **PREFERRED REQUIREMENTS:**

- Experience working directly with the Illinois Department of Transportation or Illinois State Toll Highway Authority
- Existing business development relationships with key staff in Greater Chicagoland area.

**EDUCATIONAL REQUIREMENTS:** B.S. in Civil Engineering

**SALARY RANGE:** Salary will commensurate with experience.

## **Business Unit Leader, Building Services (Mechanical, Electrical, Plumbing & Fire Protection)**

**CLASSIFICATION:** FULL-TIME

**OFFICE LOCATION:** ST. LOUIS, MO

### **POSITION REQUIREMENTS:**

- Responsible for successfully leading, setting the strategic direction and growing the firm as well as their individual business unit.
- Delivers profit and growth within the business unit.
- Oversees quality control / quality assurance processes within the business unit.
- Monitors trends and developments within the industry and proactively positions the firm to take advantage of opportunities.
- Cultivate a challenging and supportive climate within the business unit to foster a high level of employee satisfaction, performance, growth, and commitment.
- Directly and indirectly supervises employees in the MEP Business Unit. Carries out supervisory responsibilities in accordance with the Firm's policies and procedures and applicable laws. Responsibilities include interviewing, hiring, training and developing employees; planning, assigning, delegating, and directing work; appraising performance; rewarding and disciplining employees; addressing complaints and resolving problems.
- Regularly reviews workload projections and resources and recommend adjustment as necessary to fulfill commitments. Review invoices, cost data, schedules, and budgets with appropriate managers to ensure completion on a timely basis.
- Proactively coordinates with business development staff to maintain a proper level of backlog.
- Identify and convert new business opportunities to contract backlog.
- Direct relationship building, potential project development, proposal development and contracting between the Firm and clients.



- Coordinate and interface with sub-consultants, other internal office and external agencies, as appropriate.
- Perform project manager duties, primarily limited to major projects of high complexity.

**EDUCATIONAL AND EXPERIENCE REQUIREMENTS:** B.S. in Civil, Mechanical, Electrical, or Fire Protection Engineering; advanced degree in preferred. 15-20 years of significant technical experience in public or private sector. Experience managing a team is required. Existing business development relationships with key staff in area municipalities is preferred.

**SALARY RANGE:** Salary will be commensurate with experience.



**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](http://www.prairieengineers.com).

### **Opportunities Posted by Oates Associates, Inc.**

Oates Associates, Inc 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 the following positions. 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](mailto:oai@oatesassociates.com) [www.oatesassociates.com](http://www.oatesassociates.com)

#### **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.

#### **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.

### **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.

### **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.

## To submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20<sup>th</sup> 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](mailto: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](http://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](mailto: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