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Upcoming Events

November

- 06 – Prop D vote
- 08 – YMG meeting
- 13 – ASCE Luncheon
- 15 – EWRI webinar

Follow the Section and share with your network.



November Luncheon – ASCE/MSPE

Tuesday, November 13, 2018

Steven Randolph, PE, Horner & Shifrin

Michael T. Buechter, PE, D.WRE, Metropolitan St. Louis Sewer District

Presentation Description: The Good Side of the City - Outstanding St. Louis Engineer Stories.

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 Presenter:

Steven Randolph, PE 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.

Register Now!

<https://goo.gl/Z7bd3D>

Time, Date, Location

11:30am to 1:00pm, November 13, 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 for reservations by 5:00pm, Thursday, November 8, 2018.

Please note that we will no longer be accepting event registration through the Engineering Center, and you must register online.

If you wish to pay at the door, select the "pay by check" method of payment on the online registration page.

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. For cancellation, please contact Stephen Noeth at Stephen.Noeth@oatesassociates.com.

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President's Message



As we move into November, the St. Louis Section Board of Directors and Committees has been hard at work preparing for the 2018-2019 ASCE calendar year. Luncheon topics, webinars, networking opportunities, social engagements, and advocacy initiatives are all in the works to provide benefit to our membership and advance our ASCE initiatives. One of the main goals of ASCE is to insure all infrastructure is safe, resilient and sustainable. As you may have heard, there is an election next week and one of our highest priority items comes to a head as Missouri voters go to the polls with the opportunity to increase funding for our transportation infrastructure in Proposition D.

Proposition D (Prop D) is a statutory referendum to fund Missouri state law enforcement and maintenance for highways, bridges, roads, and streets, which will be possible by increasing the motor fuel tax by two and one half cents per gallon annually for four years beginning July 1, 2019. This initiative will cost the average Missourian only \$1.28 per month initially and will improve the state's roads and bridges. These improvements will save time spent in traffic, save money on maintenance costs, and allow \$1 billion in Federal Matching Funds for states and bridges.

The revenue raised will increase funding for programs currently financed by the gas tax: transportation infrastructure and the highway patrol. The initiative is written to fund the highway patrol which will free up the money in the fund currently going to the highway patrol for statewide infrastructure. There will additionally be \$123 Million annually to support local government efforts in road construction and maintenance.

While no one wants to pay more, the fact is we are currently paying for poor infrastructure through the hidden costs: additional vehicle costs, time lost in traffic, and lost business opportunities. Missouri drivers pay on average \$604/year in additional vehicle expenses due to poorly maintained infrastructure compared to \$533 nationwide. We have also been kicking the can down the road since 1996 which was the last time the gas tax was adjusted. The 17 cents/ gallon established 22 years ago only has 7 cents of buying power for today's concrete, steel, and asphalt. For these reasons the latest [Report Card for Missouri's Infrastructure](#) gave Missouri's roads a D+ and Missouri's bridges a C. We have the 7th largest system of roads but rank 49th in funding to maintain these investments. Additional investments are needed to prepare Missouri for the future.

On Tuesday, Missouri voters can have the final say on making roads and streets safer by voting "yes" on Prop D. Missouri's transportation infrastructure, with 34,000 miles of road and well over 2,000 bridges is a vital factor in our state's economic growth. For these reasons, Prop D is a bipartisan effort supported by Governor Mike Parson, Lieutenant Governor Mike Kehoe, St. Louis County Executive Steve Stenger, and St. Louis Mayor Lyda Krewson. Other supporters include a statewide coalition that includes business owners, labor, city and county leaders, farmers, law enforcement supporters, and professional associations.

While I hope you will vote yes on Prop D on Tuesday, the most important thing is to vote. While Prop D is the item most affecting our profession, the candidates and other initiatives on the ballot will have a great impact on our daily lives. Engineers are problem solvers and our voice is an important one as we shape the future of our country.

Respectively,

Chad Schrand, PE, SE, M.ASCE, F. SEI

cmschrand@hornershifrin.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

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 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

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 if you have questions.

Government Relations - State Advocacy Captains Training in DC

Alison Graves attended State Advocacy Captains Training in Washington DC on October 22nd at the ASCE Government Relations headquarters. The training was provided as part of an ongoing effort by the society to engage more members in infrastructure advocacy at the state level. Topics covered included ASCE Policies and Positions, Resources for Sections & Branches, Media & Social Media, Infrastructure Report Cards, and Federal & State Issues. Other attendees were from Connecticut, Washington, Kansas, New Jersey, and Montana.

How can you get more involved in Government Relations?

- Attend the MO or IL Legislative Drive-In in February 2019! Government Relations Chair **Dennis Boll** will send out more info as we get closer.
- Become an ASCE Key Contact <https://www.asce.org/keycontacts/> to receive alerts via email when the Society needs you to take action on a key piece of public policy. This usually involves sending a pre-drafted email or personal email to your legislators or legislative staff in support of ASCE priorities.
- Follow us on LinkedIn <https://www.linkedin.com/company/asce-st-louis-section/> and Like/Share/Comment on our posts.



Younger Member Group Update

We're just getting started and we're already off to a great year!



Trivia Night – A huge thank you to Alyssa for making sure our annual fundraiser finished strong, Todd Bolte for being the MC for the evening, and each company or member who came out to support our endeavors this year! Congratulations to the team from KPFF on taking the win!

HORNER  SHIFRIN

kpff



WSP
JACOBS

Don't forget, we're crossing the river for our November meeting! We hope to see you at Hotshots!

November YMG Meeting:

Thursday, November 8, 2018

Hotshots

1319 Central Park Dr, 62269

6 pm to 8 pm

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

YM Upcoming Events:

- December 14 at 1 PM to 3 PM – Operation Food Search
- February 8-9 – CRYMC at the Multi-Region Leadership Conference (Dallas, TX)
- May 4 – Rebuilding Together

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://fieldhousetl.com/>

April YMG Meeting:

Thursday, April 11, 2019

McGurk's

1200 Russell Blvd, 63104

6 pm to 8 pm

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

May YMG Meeting:

Thursday, May 9, 2019

Start Bar

1000 Spruce Street, 63102

6 pm to 8 pm

<http://startbarstl.com/>

2018 Annual Mid-American Environmental Engineering Conference

The St. Louis Chapter of EWRI was pleased to sponsor this one-day conference, hosted at Missouri University of Science and Technology in Rolla, for graduate students in civil and environmental engineering from six universities to share educational experiences and research. Faculty advisors and representatives of EWRI-STL Leadership were also present. Awards were given to two presenters voted on by the faculty for best presentation. Attendees were from the following six universities:

- Southern Illinois University Edwardsville
- Washington University in St. Louis
- Missouri University of Science and Technology
- University of Missouri Columbia
- Southern Illinois University Carbondale
- Saint Louis University



From left:, Award winner Yeunook Bae (Washington University), Robert Holmes (EWRI STL Chair), award winner Pradeep Prathibha (Washington University)



Left: Attendees of the 2018 MAEEC Conference at Missouri University of Science and Technology in Rolla



EWRI St. Louis Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, November 15, 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, November 12, 2018** Please register online in advance at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBalpaOJF2ZFROB4ng/viewform>

Registrants will receive detailed login & dial-in information or directions for in-person attendance prior to the event.

Climate Change: Risks, Attribution and Solutions

What can we expect from Climate Change in the future? The risks of having extreme droughts, floods and hurricanes are changing: "hundred year events" are occurring more frequently than expected. When such an event takes place, how do we know if it was influenced by climate change? Studies in "Extreme Event Attribution" are trying to estimate the importance of different factors contributing to extreme events in order to improve forecasts and enable better planning. The presentation will review recent research in these fields and finish by presenting some actions that can be taken to limit climate change.

Speaker: Benjamin de Foy, PhD is a professor in the Department of Earth and Atmospheric Sciences and the Banpu Chair in Sustainability at Saint Louis University.

Dr. de Foy studied engineering in Cambridge University, England, and did his PhD in Computational Fluid Dynamics. After that, he worked for Earth Tech, Inc., in environmental engineering for two and half years. He then returned to academia to work on the "Mexico City Project" at MIT, doing computer modeling of air quality seeking solutions to Mexico City's air quality problem. His research is focused on the use of computer models and data mining to better understand emissions of air pollutants. He has more recently studied sources of mercury in the Midwest and sources of black carbon impacting St. Louis, as well as evidence of reduced air pollution over the USA and China detected by satellites. He teaches courses in atmospheric science, computer modeling and climate change.

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

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



St. Louis Chapter Missouri Society of Professional Engineers

Missouri Society of Professional Engineers
December Luncheon
Thursday December 13, 2018
The Road to Tomorrow?
What Does the Future of Transportation Look Like in Missouri?

Abstract:

What does the future of transportation look like in Missouri? What will funding from Prop D mean to future projects, examples of MoDOT's new safety designs, will autonomous vehicles and hyperloop become part of our daily commute? MoDOT's St. Louis District Engineer Tom Blair will explore these trending topics in transportation and provide insight on:

- ∞ transportation funding
- ∞ safety initiatives and the state of Missouri roads and bridges
- ∞ upcoming projects

About the Presenter:

Tom Blair, PE: Tom Blair is in charge of MoDOT Operations in the St. Louis area. Blair began his MoDOT career in 1993 as a construction inspector in northwest Missouri. His work in recent years has included organizing traffic management during the two-year rebuild of Highway 40 (Interstate 64) and leading the agency's Road to Tomorrow team exploring transportation innovations for the future.

Time, Date, Location

11:30am to 1:00pm, December 13, 2018, at the Engineering Center, 4359 Lindell, St. Louis 63018. Registration starts at 11:30am and lunch is served at Noon. The program will begin promptly at 12:15pm. One-Half (0.5) PDH is available.

Cost

\$20/person, students and members in transition \$5

Registration

Please register and pay online using the link below for reservations by 5:00pm, Friday, December 7, 2018. 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.

<https://mspe.org/event-3111312>

Contacts

Michael Buechter, PE, D.WRE, MSPE President
314-768-2555 office
mtbuec@stlmsd.com
<https://mspe.org/>

Eric Hollmann, PE, Program Chair
314-206-4232 office
Eric.Hollmann@wsp.com

The 61st Annual Missouri S&T Asphalt Conference



61st ANNUAL MISSOURI S&T ASPHALT CONFERENCE **November 27-28, 2018**

The 61st 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; richardd@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). If you are interested in being a sponsor, please contact Professional & Continuing Education: (573-341-6222; pce@mst.edu).

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

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

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

Employment



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 named a Top Workplace by the St. Louis Post-Dispatch for 2017 and 2018. If you are interested, you must apply through our website at www.hornershifrin.com/careers. Visits and phone calls will not be accepted. Learn more about us at 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.

Building Structural Project Engineer - St Louis

YEARS OF EXPERIENCE: 4+ YEARS

If you are seeking to join a reputable engineering firm that operates by the principles of exceeding the highest standards of integrity, while cultivating a challenging, rewarding and safe environment for our employee-owners, then we want you!

Horner & Shifrin is seeking a driven and goal orientated Building Structural Project Engineer to support our growing Water division. The ideal candidate will have 4+ year's experience. The selected candidate will work with project managers and 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: B.S. in Civil Engineering with an emphasis in Structural Engineering. Masters preferred.

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 Geopak 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 Geopak 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.



Senior Bridge Project Engineer

<http://www.hntb.com/careers>

Job ID: 1018-19763

For more than a century, HNTB has helped deliver infrastructure solutions that best meet the unique needs of our clients. With client relationships spanning decades, we understand infrastructure life cycles and have the perspective to solve technical challenges with clarity and imagination. We are far more than a design firm. We see and help address far-reaching issues of financing, legislation, design, construction, community outreach and ongoing operations. As employee-owners committed to the highest levels of performance, we enable clients to achieve their goals and inspiring visions.

Just like we are committed to delivering for our clients, HNTB is also committed to delivering for you by offering benefits to protect the health of you and your family, help you balance family and career, and build your savings for retirement. Learn more at <https://www.myhntbtotalsrewards.com>.

Overview

The time is right to join HNTB Corporation! We are seeking a Senior Bridge Project Engineer to lead projects from our St. Louis, Missouri office.

Job Summary

Provides coordination of project execution and control, in a given discipline area, to achieve continuity of purpose within scope, budget, and time schedules from initial start-up through project closeout. Also accountable for handling specific design aspects on projects appropriate to discipline field. Coordinates efforts of assigned design team to ensure completeness and accuracy of design effort. Serves as technical liaison with client on project efforts. Responsible for gross revenue of \$1-\$2M.

Essential Responsibility

- Responsible for the delivery of project discipline scope elements within budget and schedule.
- Oversees completeness and accuracy of project team's work. Supervises and guides team to overall project objectives.
- Provides senior-level technical expertise to client on project aspects within the discipline.
- Assists with project management duties.
- Performs other duties as assigned.

Basic Qualification

- Bachelor's degree in Engineering
- 10 years relevant experience

Preferred Qualification/Skills

- Master's degree in Engineering
- PE/AICP

General Work Conditions

Combination Office and Field Environment: Most work is performed in an office environment in which there is only minimal exposure to potentially unpleasant working conditions. Incumbent must have the ability to stand and sit frequently and reach horizontally as well as vertically for overhead use. Work may infrequently be performed at client's job site, construction trailer, and in the field. Work may sometimes require working in inclement weather, working in a construction site, being exposed to heavy construction equipment and doing extensive walking. Adherence to applicable safety protocol is required.

HNTB Corporation is an Affirmative Action and Equal Opportunity Employer, Minority/Female/Disabled/Veteran.

The HNTB Companies are an equal opportunity employer and does not discriminate on the basis of race, color, religion, creed, sex, national origin, age, disability, pregnancy status, sexual orientation, gender identity, veteran status, marital status, genetic information, citizenship status, or other status protected by law. In compliance with the Immigration Reform and Control Act of 1986, we will hire only U.S. citizens and aliens lawfully authorized to work in the United States (if the position is or will be one which is subject to U.S. law). We will provide reasonable accommodation for qualified individual with a disability where appropriate.



METROPOLITAN ST. LOUIS SEWER DISTRICT

CIVIL ENGINEER Program Planning – Green Infrastructure

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 anticipates spending approximately \$4.7 billion on capital investment and asset sustainability over a multi-decade period.

The Program Planning group is seeking an engineer to manage MSD's \$120 million program for reducing combined sewer overflows by utilizing green infrastructure (GI) to reduce storm water runoff volume. The selected candidate would be the programs primary point of contact and would manage a grant program that reimburses developers/owners for qualifying GI project components they build. The individual would also provide oversight and track other MSD managed GI projects. Applicants should have an understanding of MSD accepted GI techniques and designs, strong organizational skills, and be comfortable giving presentations on the program details. Additional experience with MSD's storm water and sanitary sewer systems, rules and regulations, and in developing effective solutions and cost estimates for identified stormwater/wastewater problems is desired.

Qualified candidates must have a Bachelor's Degree in Engineering, preferably Civil, with a P.E. license and 4 years of professional engineering experience.

We offer our employees a challenging career along with an excellent salary/benefits package, convenient location, and free parking. Go to www.stlmsd.com/careers for more information and to apply.

Salary Range

\$66,500.00 – 101,900.00 Annually

Application

Detailed description and employment application is in the Links & Resources Section at the following website location:

www.stlmsd.com/careers

Application deadline is **Sunday, November 04, 2018**

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).



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