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Upcoming Events

April

- 9 – ASCE Luncheon
- 11 – G-I Case Histories Night
- 11 – YMG meeting
- 11 – UIUC 2019 ISEC
- 13 – MoDOT 5K Workzone
- 17 – G-I meeting
- 18 – EWRI webinar
- 18 – MSPE Luncheon
- 23 – Engineers' Club - Bridging Urban America Screening
- 26 – MST 2019 Stueck Lecture
- 27 – YMG City Foundry Construction Site Walkthrough

Follow the Section and share with your network.



Update your bookmarks with our new Section website

<http://sections.asce.org/st-louis/>



ASCE April 2019 Luncheon

Tuesday, April 9, 2019

Jefferson National Expansion Memorial - Museum of Westward Expansion
M. Scott Roark, PE

Presentation Description: Through the hard work, innovation and expertise of multiple design consultants, construction services and sub-contractors, a world-class museum and learning center was created and constructed to the benefit of the St. Louis Community. On July 3, 2018 the \$380M Jefferson Nation Expansion Memorial- Museum of Westward Expansion officially opened to the general public. Alper Audi, Inc. of St. Louis, MO was the structural engineer of record for the approximately 50,000 square foot below-grade addition, the renovation of the existing museum space and the glass entry canopy. The structural engineering component of the \$110M expansion and renovation project encountered a number of challenges and unique requirements during both the design and construction phases of the Museum Expansion. The structural design efforts and experiences are the focus of the scheduled presentation and discussion at the ASCE St. Louis Section April Luncheon.

About the presenter: Scott Roark joined Alper Audi, Inc. in 1999 as a structural engineer and became a partner in the firm in 2015. During his time at Alper Audi, Scott has designed a wide variety of both new and renovated structures constructed of reinforced concrete, structural steel, masonry and timber. His experience encompasses a wide spectrum of structural engineering applications serving clients in the commercial, health care, research, education and distribution industries. Scott is registered as a professional engineer in Missouri, Colorado, Nebraska and Indiana. His education includes a Bachelor of Science in Physics from Nebraska Wesleyan University, Bachelor of Science in Civil Engineering from Washington University in St. Louis, and Master of Science in Civil Engineering from Washington University in St. Louis.

Deadline to RSVP is Thursday, April 4.

[Register Now!](#)

Time, Date, Location

11:30am to 1:00pm, April 9, 2019, 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, April 4, 2019. 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.

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President's Message



As we move forward into spring and have hopefully left the cold behind us, I hope you have found time to take advantage of the longer days and warmer weather. The past few weeks have also provided some well-deserved recognition for one of our local institute chapters. At the Geo-Congress held this past month, the St. Louis Chapter of the Geo-Institute was awarded Best Chapter 2019. Congratulations to Shari Cunningham and the rest of the Geo-Institute leadership on the award.

Your ASCE membership currently includes a membership in one of the nine ASCE technical institutes. The institutes provide more in depth focus on

the many different facets which make up civil engineering. Our nine institutes include:

- [Architectural Engineering Institute \(AEI\)](#)
- [Coasts, Oceans, Ports, and Rivers Institute \(COPRI\)](#)
- [Construction Institute \(CI\)](#)
- [Engineering Mechanics Institute \(EMI\)](#)
- [Environmental & Water Resources \(EWRI\)](#)
- [Geo-Institute \(GI\)](#)
- [Structural Engineering Institute \(SEI\)](#)
- [Transportation & Development Institute \(T&DI\)](#)
- [Utility & Engineering Surveying Institute \(UESI\)](#)

While all are active on the national level providing discipline specific technical content, several also have local chapters and technical committees serving the local membership. Currently the St. Louis Section has Institute Chapters for EWRI, the Geo-Institute, the Structural Engineering Institute, and T&DI. We also have technical committees under the Construction Institute and COPRI. These groups are currently producing high quality technical content in the form of construction tours, webinars, conferences, and other events (most of which offer PDHs). All of these groups provide great opportunities for more specific technical content under the ASCE umbrella. Several of them are also responsible for development of the codes and technical standards we use every day.

If you have interest in diving deeper into the specific technical aspects of civil engineering, I encourage you [to reach out to the local chapter and committee chairs](#) or [myself](#) to find out more. If nothing else, simply checking your corresponding institute box when renewing your ASCE membership will provide you access to the institute content which is included with your membership.

I look forward to seeing many of you next week at the April ASCE Luncheon. We will have an interesting presentation on one of the great projects to be constructed in our region in recent memory in the Gateway Arch Museum Renovation. This project, in combination with City-Arch River, has transformed the Riverfront and Downtown. Now that the weather has turned, I encourage everyone to head down to the Arch Grounds to enjoy and come to the luncheon to learn more.

Best Regards,

Chad Schrand, PE, SE, M.ASCE, F. SEI
cmschrand@hornershifrin.com

Call for Local Award Nominations

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

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

St. Louis Section Project of the Year

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

Professional Recognition Award

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

Young Engineer Award

This award recognizes professional contributions of younger members to the Society and to the Section and is presented annually to a Member of the Section who is less than 35 years of age on February 1, 2019.

Award to Service People

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

Excellence in Journalism Award

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

Please submit nominations to Michelle Bresnahan at BresnahanM@bv.com. Guidelines and forms for making nominations are available on our St. Louis Section website at: <http://sections.asce.org/st-louis/> under the “Awards” tab or the information can be emailed or mailed to you upon request. Email BresnahanM@bv.com or Call 636-536-5875 with questions.

Deadline for submittal is June 1, 2019.

Call for ASCE Region 7 Award Nominations

This is a great opportunity to recognize the dedicated volunteers in our section and branches. The forms are posted to the ASCE Region 7 site <http://regions.asce.org/region7/awards>

The deadline for submittal is April 30, 2019.

ASCE Region 7 Awards for the following categories:

- Outstanding Younger Member
- Outstanding Faculty/Practitioner Advisor
- Lifetime Achievement

We encourage you to provide at least one nominee for each award from our Section. Multiple nominations from Sections and Branches for each award are welcomed!

Please take the time to recognize those hard working individuals within our Section who are deserving of these awards. **Again, nominations are due April 30, 2019.** If you have any questions or need additional information please feel free to contact Jennifer Jacka-Taylor at jctaylor@burnsmcd.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.”

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.

Life Member Committee - The Life Member Committee Coordinator serves as a contact point for life members, keeping life members informed about the activities of the chapter and organizing any life-member oriented activities.

New Section website is up and ready!

Update your bookmarks with <http://sections.asce.org/st-louis/>. The layout is based on a standard platform provided by ASCE National, so it is organized a little bit differently than our previous site. However, keeping the site current will be much easier, so check back often for the latest updates and information. We are still adding content and editing for consistency, so any comments or questions are welcome and can be addressed to Jeff Smith at jesmith@hntb.com.

2019 Legislative Fly-In to Washington D.C.

On March 12-13, 2019, 258 ASCE Members, including St. Louis Section members **Alison Graves, Dennis Boll, Bill Stahlman, and Marsia Geldert-Murphey**, attended the 2019 Legislative Fly-In in Washington D.C. The event started at the Renaissance Capital View Hotel in Arlington, VA, where we heard from ASCE leaders, Congressmen, and our knowledgeable lobbyists. On the 13th, ASCE set up visits on The Hill with our US Senators and Representatives, where we shared our everyday civil engineering experiences, issues briefings prepared by ASCE Government Relations team, and the our **2017 Infrastructure Report Card**. We capped off the day at a reception on the roof of ASCE Headquarters!

258 ASCE members from all 50 states, DC and Puerto Rico arrived on Capitol Hill to advocate for infrastructure and the civil engineering community. Remember – our elected officials rely on our judgements and opinions as **engineering experts!**

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



Left: MO ASCE Members Danny Hotson (KC), Dennis Boll, Emily Robbins (KC), Sheryl Gallagher (KC), and Alison Graves



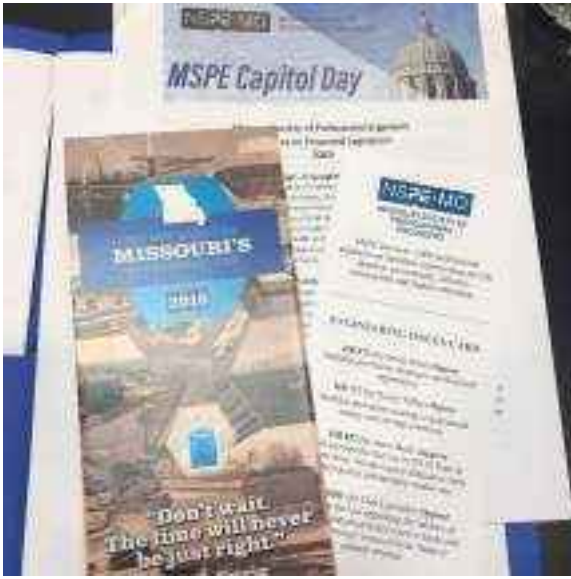
Left/Below: MO ASCE Members with Rep. Lacy Clay, staffers from Sen. Roy Blunt, & Sen. Josh Hawley



Left: MO ASCE Members at Reception



7th Annual Legislative Drive-In to Jefferson City



On Wednesday March 27th, 2019, the St. Louis and Kansas City Sections teamed up with NSPE-MO and ACEC for their Legislative Drive-In to Jefferson City. Attendees included **Alison Graves, Dennis Boll** and **Brent Vaughn** from St. Louis and Sheryl Gallagher, Danny Hotson, and Bayley Brooks from Kansas City. The day started at the NSPE-MO/ACEC office with issue briefings by lobbyists and legislative updates from the week. Members then had lunch together and met with their Representatives and Senators, and several members from the House Transportation Committee.

With the Missouri gas tax ranked 49th out of 50 states, transportation funding was a big topic, in addition to introducing freshmen legislators to **MO's 2018 Report Card for Infrastructure** and threats to professional registration. *Read more about the Report Card for Missouri's Infrastructure at the [MO Report Card Website](#).*

For more legislative updates, follow us on the [St. Louis Section LinkedIn](#) page!



St. Louis Geo-Institute Selected as 2019 Best Chapter!

The St. Louis Geo-Institute was announced as the 2019 Best Chapter at GeoCongress in Philadelphia!

The Best Chapter Award was established in 2012 by the Geo-Institute to recognize Chapters' accomplishments for its members and its community. This national award was based on well-attended meetings and events, quality technical presentations, communication with our members, and support of geotechnical students within the St. Louis Section. The Geo-Institute is thrilled to bring this award home to St. Louis!

As the winner of this precious award, our St. Louis Geo-Institute will receive a visit from a nationally recognized speaker to present at a local meeting, and the Chapter's accomplishments will be highlighted through an article in GEOSTRATA magazine.



Save the Date for Green Roof & Wall Symposium

The Green Roof Environmental Evaluation Network ([GREEN](#)) at Southern Illinois University Edwardsville is hosting a green roof and wall symposium in conjunction with Green Roofs for Health Cities on September 23 and a green roof professional training on September 24. Details will be shared in the future and [online](#).

Highlights from 2019 EWRI Spring Seminar, “Water, Water, Everywhere”

EWRI St. Louis Chapter partnered with Saint Louis University to host this year’s Spring Seminar at The Il Monastero Center on Friday, March 9, 2019. Once again, the Chapter is honored to serve fellow engineers in their continuing education.

The daylong seminar included presentations on many topics, both from a local and national perspective, ranging from:

- Moving the Needle: Rainfall Runoff Trends in Urban Settings by Elise Ibendahl from Jacobs and Gary Moore from University of Missouri - St. Louis/Washington University in St. Louis.
- Impacts of Water Chemistry on Lead Corrosion Control by Daniel Giammar from Washington University in St. Louis.
- Road Salt: Why and How to Reduce Our Use by Danelle Haake from St. Louis University.
- Houston Post-Harvey by Jamila Johnson from Houston Public Works.
- Hydrologic Processes: A Flyover Refresher Ranging from Precipitation to Rainfall-Runoff Modeling Using the Unit Hydrograph Theory by Robert Holmes from U.S. Geological Survey.

We were extremely excited to have so many presenters and received lots of good feedback from attendees. Many thanks to our suite of speakers as well as the Spring Seminar Chair, Jiaman Xu (Civil Design, Inc.) and her energetic committee members Azadeh Akhavan Bloorchian (Stantec), Amanda Cox (St. Louis University), Melissa Marks (Jacobs), Kaleena Menke (MSD). Special thanks to Len Madalon (EDM), Meg Zuercher (Jacob) and Susan McCrary (MSD) for coordination and marketing.

Be sure to join us next spring! The Chapter look forward to supporting you in your engineering journey. If you have interest in a particular EWRI related topic, please contact the Spring Seminar Chair, Jiaman Xu at jxu@civildesigninc.com.



Speakers and Spring Seminar Planning Committee Members



Gary Moore explains rainfall runoff



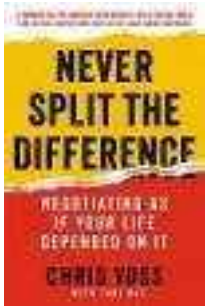
Robert Holmes presents on hydrologic processes



Danelle Haake discusses road salt

Younger Member Group Update

Only a couple more months before our summer break. We have a few activities remaining before and during the break!



Summer Book Club – if you would be interested in reading *Never Split the Difference: Negotiating as if your life depended on it* by Chris Voss, please reach out via e-mail. An ideal schedule will be out soon.

City Foundry Construction Site Walkthrough – Our Younger Members will join S.M. Wilson on April 27th from 1 pm to 2pm for a walkthrough of the City Foundry Construction Site set to open in 2020. All attendees are required to bring all PPE, you can [sign up here](#) or at the link below. For a little more information on what City Foundry is, check out their [website](#).

Join us for our next meeting!

April YMG Meeting:

Thursday, April 11, 2019

McGurk's

1200 Russell Blvd, 63104

6 pm to 8 pm

YM Upcoming Events:

- April 27: 1pm to 2 pm – City Foundry Construction Site Walkthrough – [SIGN UP HERE!](#)
- May 9: 6pm to 8pm – May YMG Meeting at Start Bar
- May 4 – Rebuilding Together – E-mail if you're interested!

If you have any ideas for next year's YMG schedule, please feel free to submit them on our [Younger Member Engagement](#) form.

Contact Brandi Jones, YMG Chair, at bnjones.asce@gmail.com if you have any questions or comments regarding the YMG Update.

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/>

Geo-Institute News

Next Geo-Institute Monthly Meeting is on **Tuesday, April 17th** at 7:30 AM at the offices of **Reitz & Jens**. Nominations for our new secretary-treasurer will need to be in by the April meeting. Please contact Shari Cunningham at shari@thddesigngroup.com for more details.



**GEO-
INSTITUTE**
St. Louis Chapter



St. Louis Chapter of the Geo-Institute of ASCE Presents

Case Histories Seminar and Student Projects

DATE AND TIME: Thursday, April 11, 2019
5:00 pm Registration and networking; Student poster displays
5:30 pm Buffet dinner
6:00 pm Student posters presented
6:30 pm Program begins

Case Histories presentations will include:

- "Vibro Ground Improvement for St. Louis Ice Center & Blues Practice Facility" by Lyle Simonton, Subsurface Constructors, Inc.
- "Liquefaction Mitigation using Ground Improvement" by Yan Zhang and Mark T. Howe, Hayward Baker, Inc.
- "War Games - Evaluating Risk" by Thomas J. Casey, SCI Engineering, Inc.

LOCATION: Engineers Club of St. Louis, 4359 Lindell Boulevard, St. Louis, MO 63108

COST: \$40.00 for ASCE Members; \$50.00 for Non-ASCE Members; \$20.00 for Full Time Students. Payment can be made by check or credit card. Registration includes a buffet dinner. Vegetarian meals are available upon request.

Attendees will receive up to 2.5 PDH credits.

REGISTRATION: Sign up by **Wednesday, April 3** by visiting <https://goo.gl/8XKQJ6> (case sensitive) or [clicking here](#).

Advance registration is required for all attendees. ASCE is charged for all reserved meals. If you've signed up and can't make it, please cancel by 4/3/19 or we may have to charge you for the meal.

Student research posters will be on display during the registration/networking period, and selected students will give brief presentations on their topics.

A limited number of **sponsorship opportunities** are available for this event. If interested, please contact Jake Schaeffer jschaeffer@mps-il.com Geo-Institute vice chair.

EWRI St. Louis Announcements

EWRI St. Louis Chapter will be holding elections for the position of Secretary/Treasurer. Elections will be held in early summer and the position will be for two years starting October 2019. If you would like to nominate yourself or know of someone interested, please email Robert Holmes at holmesrr@mst.edu.

EWRI St. Louis Chapter is looking for more active engagement for its members. There are several opportunities to interact with your colleagues through monthly webinars, quarterly business meetings, and volunteer opportunities. We have particular need for additional volunteers to serve on our Monthly Webinar steering committee. Send email to Robert Holmes (holmesrr@mst.edu) if you have interest.



EWRI St. Louis Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar on **Thursday, April 18 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, April 15, 2019.** Please register online in advance at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBaIpaOJF2ZFROB4ng/viewform>

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

NORTH CANADIAN RIVER RESTORATION

North Canadian River is a sand bed river that is highly dynamic and prone to migration. Burns & McDonnell was hired by an electrical generator to evaluate the river because erosion was ongoing, and the river was migrating away from the electrical generator's intake. If the intake was without water, electrical generation would cease and there would be brown outs and black outs. Burns & McDonnell and Dave Derrick evaluated the channel for methods of channel stabilization and restoration which would prevent further migration and provide a long-term solution for water supply to the intake. Burns & McDonnell used bioengineering techniques including bendway weirs, longitudinal peaked stone toe protection, and vegetation to redirect the river. Staff performed grain size analysis on the bed material, hydraulic modeling and scour evaluation, and produced construction documents to allow for emergency permitting with the Corps of Engineers. The project, from beginning of design to completion of construction, was accomplished in less than 4 months.

Speaker: Rick Besancon, PE is a civil engineer specializing in channel stabilization and restoration. Rick has worked for Burns & McDonnell for over 23 years, starting in Kansas City in the Civil/Hydraulics Group, then opening the Omaha Office in 2009. Rick has worked from Florida to Alaska and from New York to Southern California on restoration and stabilization projects.

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.

2019 Work Zone 5K Run and Walk



2019 Work Zone

5K RUN and WALK

April 13, 2019 * 8 a.m.

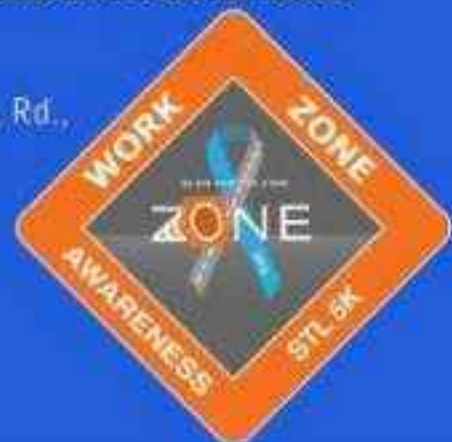
Bring your family, friends and coworkers to run, walk or jog for work zone awareness. See the BIG truck show, take a selfie with Barrel Bob, or in the photo booth!!

Register at Big River Running

<https://www.athlinks.com/event/6thannual-work-zone-awareness-5K-132863>

LOCATION: MoDOT TMC, 14301 South Outer Forty Rd.,
Chesterfield, MO 63017

CONTACT: 314-453-1807



April Luncheon



Drones and Their Practical Application

Thursday, April 18, 2019

Abstract: Luncheon to discuss Ameren's innovative and system reliability focused approach to deploying drones as a daily operation. There will be a demonstration (weather permitting).

Ameren is deploying and utilizing unmanned aerial technology in multiple business lines with a focus on cost savings, reliability, safety and customer satisfaction. Drones are being used daily throughout Ameren's service territory to inspect power lines, vegetation, gas and generation facilities with a high degree of success. Benefits are even being seen in storm restoration, where drone crews are able to assess damage in difficult to access areas in a fraction of the time a foot patrol would take.

About the Presenter:

James Pierce, GISP, sUAS – Supervisor, Unmanned Aerial Systems Operations, Ameren

James Pierce is the supervisor of Ameren's Central UAS Department. James brings with him nearly 20 years of experience in engineering, remote sensing/GIS, aerial photography and project management to the drone team, with an undergraduate degree in geography, multiple certificates in computer programming, database design, cartography, drafting, masters courses in mining engineering and a Part 107 drone pilot certificate from the FAA.

James has continuously ushered innovation with drones culminating in the present day commercialized, program driven department that it is today.

Time, Date, Location

11:30am to 1:00pm, April 18, 2019, 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 12:15 pm. One (1) PDH is available.

Cost

\$20/person, students and members in transition \$10.

Registration

Please register and pay online using the link below for reservations by Friday before the event. 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-3244964>

Contacts

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

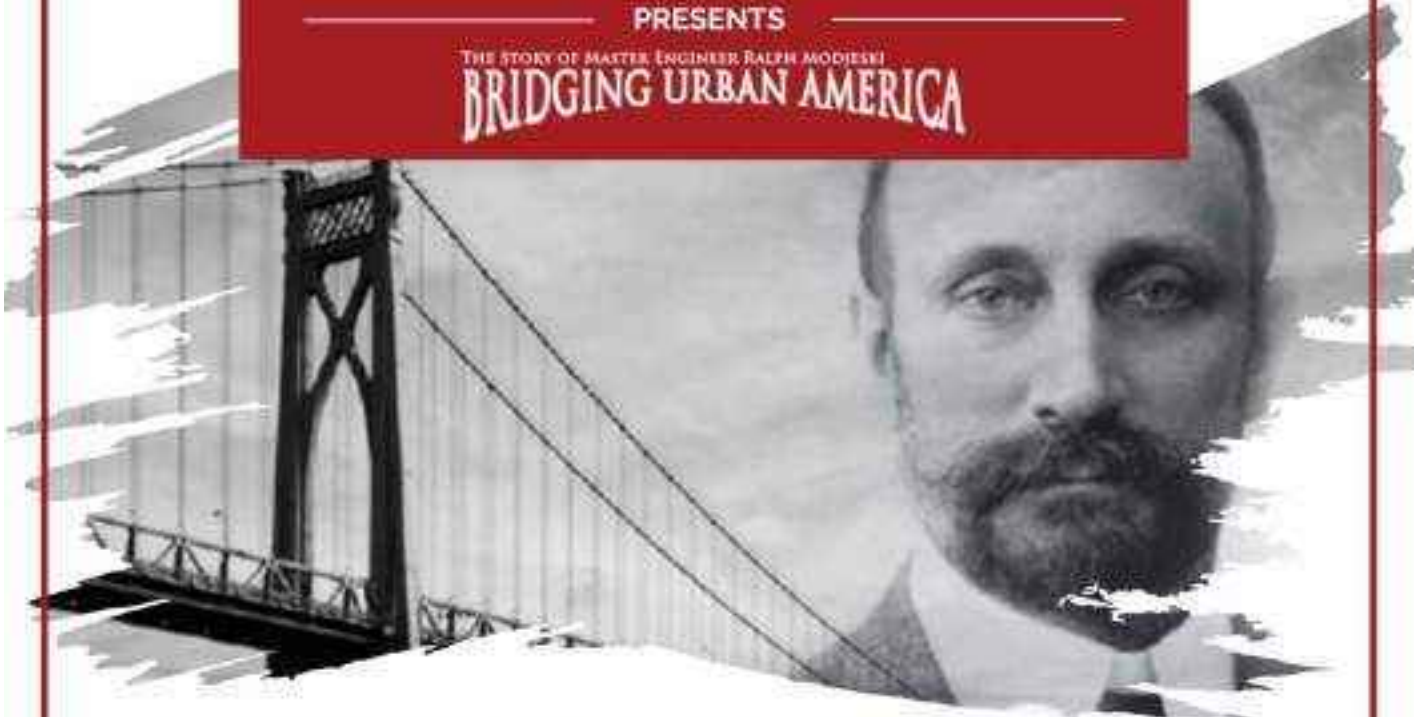
Eric Hollmann, PE, Program Chair
314-206-4232 office
Eric.Hollmann@wsp.com

THE ENGINEERS' CLUB OF ST LOUIS



PRESENTS

THE STORY OF MASTER ENGINEER RALPH MODJESKI
BRIDGING URBAN AMERICA



THE ENGINEERS' CLUB OF ST LOUIS IS HONORED TO HOST ONE OF THE FINAL AMERICAN SCREENINGS OF **BRIDGING URBAN AMERICA: THE STORY OF RALPH MODJESKI.**

Join us for the St. Louis premiere of an intriguing documentary BRIDGING URBAN AMERICA - THE STORY OF RALPH MODJESKI **TUESDAY, APRIL 23, 2019.**

- » 5:30 - 6:30 p.m. Social Hour (Drinks & Appetizers)
- » 6:30 - 7:00 p.m. Intro by Filmmakers Basia & Leonard Myszynski
- » 7:00 - 8:35 p.m. Movie
- » 8:35 - 9:30 p.m. Q&A/Networking

Tickets are \$20.00 and please RSVP to

<https://www.eventbrite.com/e/bridging-urban-america-movie-night-tickets-57717648039>

URL to Share on Twitter:

<https://www.eventbrite.com/e/bridging-urban-america-movie-night-tickets-57717648039?ref=estw>

Featured stories include the controversial SF/Oakland Bay Bridge, the Huey P. Long Bridge with its New Orleans politics, Modjeski's Ben Franklin masterpiece in Philadelphia and the catastrophe behind the construction and reconstruction of the Quebec Bridge, pivotal in engineering history as well as our local Broadway Bridge!

For more information please go to www.engineersclub.net/club-events

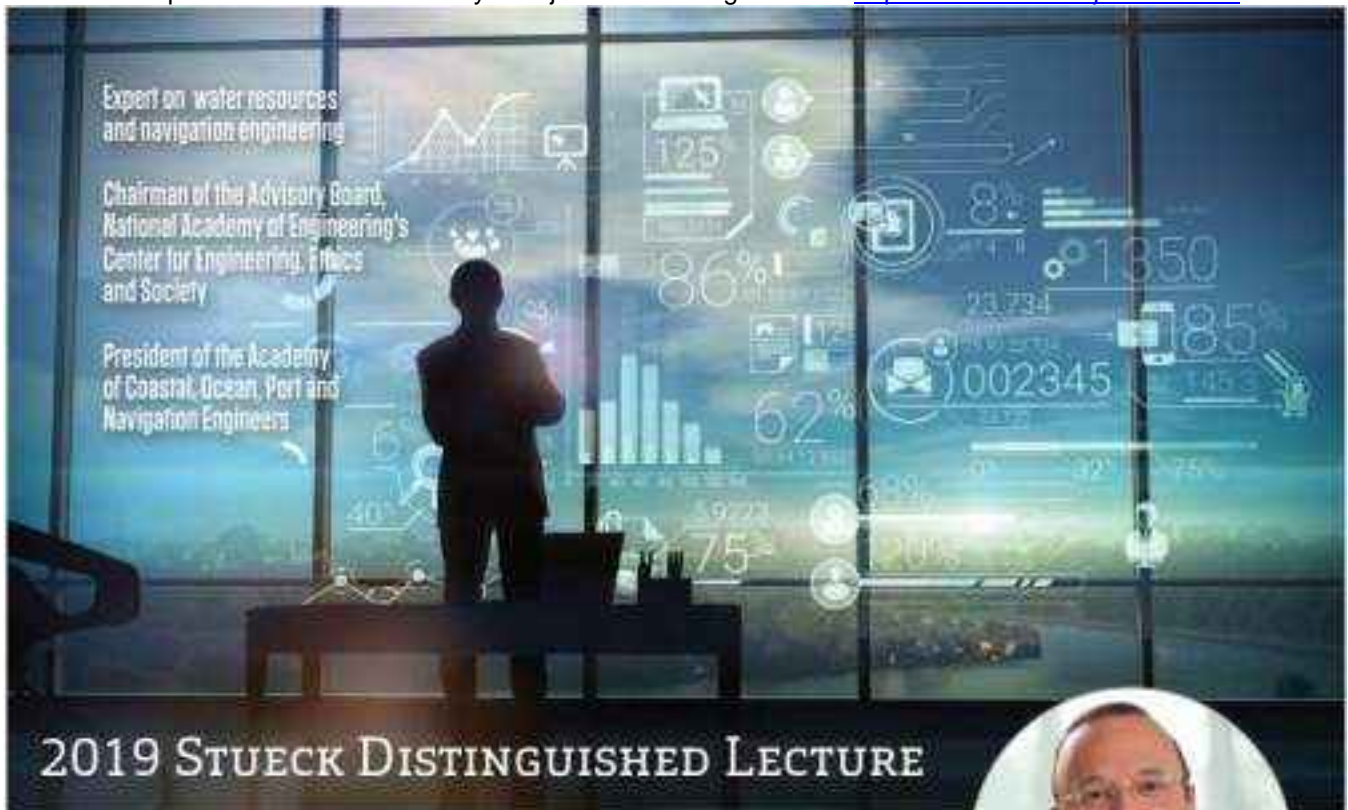
Thank you to our Sponsors!



A certificate for 2 PDHs will be issued to attendees

2019 Stueck Distinguished Lecture

All are invited to 2019 Stueck Distinguished Lecture at Missouri S&T by Dr Paul Boulos. Dr Boulos is the 2019 Simon Freeze award recipient from ASCE. You may also join the meeting online at <https://mst.zoom.us/j/531439230>



Paul F. Boulos

Engineering
Technology
Leader

2:30 p.m. | Friday, April 26
120 Butler-Carlton Hall

**Building and Sustaining Great Companies:
Why do some companies fail and others succeed?**

LESSONS ON LEADERSHIP

Join the Zoom Meeting live at: <https://mst.zoom.us/j/531439230>

Department of Civil, Architectural and Environmental Engineering

The Neil and Maurita Stueck Distinguished Lecture Series is made possible through the generous gifts of **Maurita Stueck**. It was her dream to create a program to bring additional outside perspectives into the classroom, something her late husband **Neil Stueck**, CE'63, would have been very proud to support.

Dr. Paul F. Boulos is a highly dynamic engineering and technology business leader and philanthropist. He is currently serving as chief executive officer of Digital Water Works, a new type of engineering services provider dedicated to innovating exclusively for the global water and wastewater industry by strategically bringing the power of digital twin solutions for smarter, more sustainable and resilient wet infrastructure.

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care.mst.edu

Save the Date for 2019 GeoMO

GeoMO will be an all-day geotechnical conference on May 10, 2019 in St. Louis, Missouri. The event is organized by Missouri University of Science and Technology. Visit <https://geomo.mst.edu/> for more information.



Advancements in Seismic Geotechnical Engineering

Friday, May 10, 2019 | 8 a.m. – 5 p.m.

SGA Chamber, Millennium Student Center – UMSL, St. Louis, Missouri

Keynote Presentations:



Shamaheer Prakash Keynote Lecture:
Performance Based Design in Geotechnical Earthquake Engineering

W.D. Liam Finn, Ph.D.
Professor, Essential University of British Columbia,
President, Two American Engineering and Computing



Invited Keynote:
Morning – Dynamic Site Response and Liquefaction-Induced Ground Deformation

Afternoon – Nonlinear Soil-Structure-Interaction and Applications for Bridge Systems in Liquefiable Ground

Ahmed-Wael Elgarnal, Ph.D.
Professor of Geotechnical Engineering, Department of Structural Engineering and Associate Dean for Faculty Affairs, Jacobs School of Engineering, University of California – San Diego

Afternoon Session Presentations:

Micropiles Support the "Missing Link" – Understanding Load Transfer in Challenging Subgrades

Romaldo Luna, Ph.D., P.E., F.ASCE, D.OE

Seismic Reinforcement of Soft Clays with Deep Soil Mixing

Güney Ögün, Ph.D.

Geotechnical Applications of Ground-Based Interferometric Radar Measurements

Brent Rosenblad, Ph.D.

LEARN MORE & REGISTER
geomo.mst.edu

Registration Now Open —

WHO SHOULD ATTEND:

Geotechnical Engineers
Civil Engineers
Environmental Engineers
Geophysicists
Geologists/Hydrogeologists
Bridge/Infrastructure Engineers
Designers of —
Restoration of Pavements and Other Infrastructures
Owners and Operators
Planners and Regulators
DOT Engineers
Graduate Students

CONFERENCE FEES:

Regular – \$225.00
Student – \$75.00

EARN 6 PROFESSIONAL DEVELOPMENT HOURS (PDHs)
(for professional licensure requirements)

Questions? Contact us.

Technical Questions:

Xiong Zhang, Ph.D., Conference Director
573-341-6206 | zhangxi@mst.edu

Registration Questions:

Professional & Continuing Education
573-341-6222 | pcem@mst.edu
FCE.MST.EDU

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I STRUCTURAL
ENGINEERING
CONFERENCE

About the Conference

The conference is designed for professionals in structural engineering to gather in Champaign-Urbana to discuss exciting new developments in the field, gain timely job-related information, network with colleagues, and renew their sense of professional purpose. The participants are a diverse group of engineers from local, state, and federal agencies; consulting and contracting firms; and universities.

Conference Planning Committee

The Conference program was developed by a distinguished group of practicing structural engineers from the Chicago, Central Illinois, and St. Louis regions, in cooperation with the structural engineering faculty of the University of Illinois at Urbana-Champaign.

Professional Development Hours

The conference will provide 6.5 professional development hours (PDH) for professional engineers.

Register Today!

<https://my.cee.illinois.edu/isec-2019>

Thursday, April 11th 2019

I Hotel and Conference Center

1900 S. First Street, Champaign, IL 61820

<https://structures.cee.illinois.edu/structural-engineering-conference/>

I ILLINOIS

Save the Date for 2019 SHMII-9



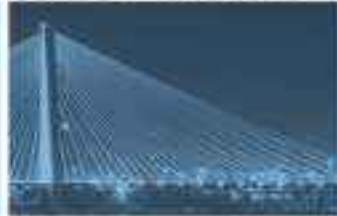
9th International Conference on Structural Health Monitoring of Intelligent Infrastructure

TRANSFERRING RESEARCH INTO PRACTICE

AUGUST 4-7, 2019

St. Louis, Missouri USA

Hyatt Regency at the Arch



Meet us in St. Louis for SHMII-9!

You are cordially invited to attend the 9th International Conference on Structural Health Monitoring of Intelligent Infrastructure (SHMII-9). SHMII-9 is focused on "Transferring Research into Practice" and calls for the attention and wide participation from researchers, engineers, owners and regulators.

The program will include:

August 4, 2019 – Pre-Conference Short Course

Structural Health Monitoring Using Fiber Optic Sensors

A course for civil engineers, researchers, managers and owners of infrastructures

August 5-7, 2019 – Full Conference

- Technical keynote lectures, invited lectures, podium sessions, student poster competitions, student-mentor career path sessions, panel discussion(s)
- Technical tours – includes demonstrations of advanced robotic and sensing technologies on real-world bridges
- Exhibit/Sponsor – Don't miss unique opportunities to partner with SHMII-9 as a sponsor or to reserve your exhibit space

Over 400 abstracts accepted in four tracks:

- Research & Development
- Technology Transfer
- Technology Demonstration/Case Studies
- Special Sessions

Sponsorship & Exhibition Opportunities

- Sponsorship packages available at platinum, gold, and silver levels
- Exhibit to promote your organization and products – includes option for in situ bridge testing demonstration (While demonstration option must be reserved prior to conference)

For full details, visit shmii-9.mst.edu/sponsors.

QUESTIONS? Our team is available to assist you!

Technical

Genda Chen, Ph.D., PE, FASCE, FSEI
SHMII-9 Conference Chair
573-341-4462 | gchen@mst.edu

Sreenivas Alampalli, Ph.D., PE, FASCE, FSEI
SHMII-9 Conference Co-Chair
518-457-4544 | Sreenivas.Alampalli@dot.ny.gov

Logistics & Registration

Global Learning –
Professional &
Continuing Education
SHMII-9 Conference Organizers
573-341-6222 | shmii-9@mst.edu
SHMII-9.MST.EDU

PLAN TO ATTEND

First time held in the USA

SHMII-9 represents the 9th official event in the biennial conference series sponsored by the International Association of Structural Health Monitoring of Intelligent Infrastructure (ISHMII). This is the first time the conference will be held in the USA. The State of Missouri is honored to host attendees of this prestigious conference. We hope you will bring your family and explore our state beyond St. Louis. Missouri is well known for its natural riverways, springs and caves. Other favorite vacation destinations include Branson and the Lake of the Ozarks.

www.visitmo.com

Conference Venue – Hyatt Regency St. Louis at The Arch

All conference activities will be held in the Hyatt Regency St. Louis at The Arch. Located in the heart of downtown St. Louis, the Hyatt is just steps from the iconic Gateway Arch – you won't want to miss the newly renovated arch grounds and museum depicting America's westward expansion and the explorers, pioneers and rebels who made it possible.

stlouisarch.hyatt.com

We look forward to welcoming each of you to St. Louis. For more information, visit –

shmii-9.mst.edu



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.

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.

THD Design Group

civil - geotechnical - surveying

Be a part of THD Design Group's growth in the local geotechnical community (formerly Gateway Geotechnical). Please respond in confidentiality, to our mailing address at 148 Chesterfield Industrial Boulevard, Suite E, Chesterfield, Missouri 63005, attention Geotechnical Services, or electronically to TMike@THDDesignGroup.com. Applicants may be subject to a background check and/or drug testing.

THD is planning potential re-organization and expansion in its Chesterfield valley location in the following positions ---

SENIOR GEOTECHNICAL ENGINEER (Possible advancement to Director of Geotechnical Services)

Sound basis in geotechnical engineering. Strong capability and experience in written and oral communications, including interaction with clients and review/mentoring of geotechnical engineering staff. Provides geotechnical engineering problem solving on a day-to-day basis as well as a responsibility to develop and maintain business relationships, responsiveness to client needs, and maintenance of project scheduling, invoicing, and budgeting. Performs more complex explorations and design considerations, as well as guiding the work of less-experienced geotechnical engineers. Participation in development of group guidelines and practices. Requires minimum of 15 years applicable and increasing experience, including leadership and character; and an MS degree in civil/geotechnical or geological engineering. Registration as a Professional Engineer in Missouri and Illinois is required. Established relationships and a working knowledge of legal, insurance, contract, and other business operations are pluses/required.

GEOTECHNICAL ENGINEER

Sound basis in geotechnical engineering. Strong capability and experience in written and oral communications. Includes planning and executing more routine exploration programs and other field testing, drilling/sampling, and construction activities including proficiency with geotechnical software, such as slope stability programs. Calculations include foundation type and excavation, bearing capacity and settlement, and construction of buildings and supporting structures for public and private clients. Requires minimum of 3 to 5 years applicable and increasing experience, and work towards an MS degree in civil/geotechnical or geological engineering. Registration as an Intern or Professional Engineer in Missouri and Illinois a plus.

GEOTECHNICAL TECHNICIAN

Full or part-time position for observation/coordination with clients and in-house engineers, relative to site preparation, sample collection, soil and rock compaction, and concrete testing. Some laboratory testing included. Requires minimum of 1 to 5 years applicable and increasing experience. Certification to operate nuclear density meter and other MoDOT field and laboratory certifications are pluses.

* * *



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

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.



Oates Associates is a team focused on enhancing our community from the inside outward. That begins internally with a talented staff. If you are interested in a position with Oates Associates, please complete the [employment application](#) and send it along with your resume. Upload your information to our website at www.oatesassociates.com/contact, email us at oai@oatesassociates.com or print and send to:

Oates Associates, Inc.
100 Lanter Court, Suite 1
Collinsville, IL 62234

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

Structural - Bridge Engineer

To accommodate the continued growth in our structural - bridge department, we are seeking a motivated and energetic individual for an entry level or project engineer position. Work will be out of our Collinsville, Illinois office.

The ideal candidate will possess the following:

- Bachelors or Masters in Civil Engineering with emphasis in structures
- EIT certificate or PE/SE license
- New graduate to 10 years of bridge design experience
- Proficient in MicroStation, and Microsoft Office
- Strong technical, communication and presentation skills
- Experience working with local agencies and State DOT's preferred
- Ability to conduct field visits for bridge inspections

Typical responsibilities will include:

- Bridge inspection and reporting
- Bridge type and location studies
- Preliminary and final design including the development of construction documents
- Development of estimates of probable construction cost
- Load rating inspection and analysis

We are seeking a civil engineering project manager and a project engineer to work in our Facilities Group. This position is ideal for a civil engineer that enjoys working on a team, meeting and working with clients on building and site development, drainage, utility, and campus development projects ranging from \$10K to \$20M projects. Work will be out of our Collinsville, IL and St. Louis, MO offices.

Civil Engineer - Project Manager

The ideal candidate will also possess the following:

- Bachelors in Civil Engineering – Masters is a plus
- PE license or ability to get a license within 6 months
- 4 - 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

Typical responsibilities will include:

- Meeting with clients and potential clients to discuss projects
- Developing manhour estimates and proposals
- Managing project scope, schedule, and budgets
- Collaborating with project engineers, peers, and managers to develop designs
- Developing bid and construction documents
- Developing construction cost estimates
- Performing construction administration during construction operations

Civil Engineer - Entry Level to 5+ Years

The ideal candidate will also 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

Typical responsibilities will include:

- Drawing topographic surveys
- Laying out sites and developing grading plans in AutoCAD
- Coordinating utility service connections and relocations
- Developing of bid and construction documents
- Developing construction cost estimates
- Observing construction operations at work sites and performing material tests



Structural Engineer II

www.lochgroup.com

Lochmueller Group is currently seeking a Structural Engineer II to work in the St. Louis, MO office, St. Charles, MO office, or Troy, IL office.

The Structural Engineer II will focus is the preparation of plans and/or reports associated with new and rehabilitated highway bridges and other structures to include retaining walls and water/wastewater structures and facilities. The Structural Engineer II has developed the skills and expertise required to assign and delegate tasks for a small number of junior staff in the production of work.

Duties:

- Assisting with the development of project scopes, budgets and schedules for contract development.
- Coordinating with other Lochmueller Group departments and sub-consultants to assign project scope, budget and schedule.
- Organizing work flow within the design team assigned and taking responsibility for the timely completion of the tasks assigned within allocated budget and schedule.
- Performing design type functions related to geometric and structural design, hydraulic computations and plan preparation, including structural details utilized in CAD.
- Develops computer models in various software to aid in design development
- Performs quantity computations and cost estimates
- Prepare and develop various preliminary engineering studies.
- Performs a quality check of work assigned to junior staff and Engineering Technician/Designers.
- Lead or Perform bridge inspections in accordance with NBI Standards, load ratings and develops inspection reports.
- Communicating the status of the project task assignment status to the Project Manager.
- Performing verification that project designs are in conformance with the latest design specifications.
- Performing related work as required.

Qualifications:

- Registered Professional Engineer
- MoDOT & IDOT bridge project experience preferred.
- In-depth knowledge of Microstation or AutoCAD
- In-depth knowledge of structural software
- In-depth knowledge of Microsoft Office products
- Ability to work well independently and in a team environment.
- Strong verbal and written communication skills.

Education:

- B.S. in Civil or Structural Engineering from an ABET accredited institution.

Experience:

- 4+ years of experience

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/st-louis/>. 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/st-louis/>

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).

