



**ASCE / Geo-Institute March 2022 Luncheon**  
 Tuesday, March 8, 2022

**The City's Northern Gateway: Burlington's Bridge at Bellefontaine**

The monthly luncheon has returned to an in-person format, which will also be available virtually. This presentation will cover "The City's Northern Gateway: Burlington's Bridge at Bellefontaine," sharing a history of the first railway bridge's construction over the Missouri River at St. Louis, 1892-94, using dozens of photos to reveal the process.

**Presenter:** David Lobbig - Curator of Environmental Life, Missouri Historical Society

Register ([link](#)) by 5:00 PM on March 1, 2022 for in-person attendance.  
 Register by 9:00 PM on Monday, March 7, 2022 for virtual attendance.  
 One (1) PDH available.

**Cost:**  
 \$25 In-Person Attendance w/ Lunch, \$5 Virtual (Member)  
 \$10 Virtual (Non-Member)

**Time & Date:**  
 Tuesday, March 8, 2022 from 11:30 AM to 1:00 PM CST  
 Check-in starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm.  
 One (1) PDH available.

**Where:**  
 Engineers' Club of St. Louis  
 4359 Lindell Blvd.  
 St. Louis, MO 63108

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Upcoming Events

March

- 8 ASCE March Luncheon
- 11 EWRI Water, Water Everywhere
- 17 EWRI February Speaker Series
- 23 March YMG Meeting

**LinkedIn**

*Follow the Section and share with your network.*

*Update your bookmarks with our new Section website*

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

## Officers & Directors 2021 - 2022

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## President's Message



As I am writing this message, National Engineers' Week has just wrapped up. I hope you had an opportunity to participate in this annual celebration of engineering. Our Section was quite active this year. We attended the Engineers' Week luncheon hosted by the Engineering Center of St. Louis on Tuesday February 22. Panelists consisting of leaders from local utilities and governmental agencies provided valuable information about current and upcoming priorities of their organizations, and there was a lot of great networking opportunities. Our Section also participated in the Engineering Center's Career Fair on Friday February 25 and had the opportunity to talk

to many engineering students about civil engineering and the benefits of joining ASCE. On Saturday February 26, volunteers from our Section participated in the St. Louis Science Center's Sci Fest: Engineering Expo, and spoke with families about civil engineering and provided hands-on demonstrations for children to check out, including a demonstration of mechanically stabilized earth using kinetic sand and wire mesh for reinforcement, as well as a shake table with structures built with K'Nex® to demonstrate the effects of seismic activity on buildings. It was a lot of fun! Many thanks to our volunteers including Michelle Bresnahan, Jeff Fouse, Rebecca Johnson, Jordan Pettibone, Brent Vaughn, and John Weiland.

In February, several of our Section Board and YMG leaders participated in ASCE's virtual Multi-Regional Leadership Concrete, as well as a ASCE Region 7 breakout meeting. Information was provided about best practices from other Sections and Branches, and tools from ASCE. One very useful tool ASCE offers is a link to several resources to leaders of Sections and Branches, including committee chairs and Board members. This website, with links to many useful tools on publications, general administration, webinars, life membership, and government and media relations can be found [HERE](#). Another useful resource to members is the [ASCE Mentor Match](#), hosted on ASCE Collaborate. This provides an opportunity to set up a mentor/mentee profile, search potential matches for mentors/mentees, follow steps to initiate exploratory discussions, and agree on terms of mentorship once a match is found. While this tool is open to potential mentorship matching throughout all of ASCE, mentorship matches can be potentially filtered locally provided there is sufficient local participation. Please consider checking this out.

In March, we are looking forward to our monthly luncheon scheduled for Tuesday March 8, with in-person and virtual participation formats. This month's luncheon will feature a presentation from David Lobbig, Curator of Environmental Life at the Missouri Historical Society, and the topic of Mr. Lobbig's presentation will be on the history of the construction of the first railroad bridge over the Missouri River at St. Louis. Hope you can attend and hear about this historically significant project.

Finally, we are excited to share that Marsia Geldert-Murphey, P.E., F.ASCE, Regional Director with Lochmueller Group, and a member of the ASCE St. Louis Section, is a nominee for ASCE 2023 President-Elect. Ms. Murphey is a Past President of the ASCE St. Louis Section (2006), she served on the ASCE Board of Direction from 2016-2019 as the Region 7 director, and has served as an ASCE

servant-leader in many capacities. Please read more [HERE](#). The ASCE election opens May 1 with online ballots accepted through June 1. We look forward to sharing more information about Ms. Murphey’s candidacy in the coming months.

Have a great month!

Yours truly,

John Weiland

## Illinois Lobby Day

To celebrate E-Week, on February 23 ASCE St. Louis Section joined ASCE-IL Section and ACEC-IL for the annual Illinois Lobby Day. St. Louis Section Past President Jordan Pettibone attended on behalf of the Section, meeting up with members from the IL Section.

The all-day seminar allowed members of our societies to collectively discuss various infrastructure interests and concerns with our elected representatives and senators. Among the guests were IL Senate president Don Harmon, Senator Ram Villivalam – Transportation Committee Chair, Speaker of the House Emanuel “Chris” Welch, House Republican Leader Jim Durkin, and several other senators & representatives (both sides of the aisle, too!). IDOT Secretary of State Omer Osman also made an appearance to field any questions and concerns from our group. He also relayed gratitude for positive relationships with consultants working with the Department on the influx of projects from the Rebuilding Illinois program and the new IIJA law.

A big thanks to Kevin Artl of ACEC-IL and his staff who programmed this event and made possible these meetings.



**L to R: Jordan Pettibone (ASCE-StL Past President), Andrew Walton (ASCE-IL President), Megan McDonald (ASCE-IL Past President), and Brian Pawula (ASCE-IL immediate Past President)**

## Younger Member Group Update

**March Meeting** – Join us for our March meeting! We'll be by SIUE, so be sure to come by and meet some current students.

**Date: March 23, 2022**  
**Location: Recess Brewing**  
**Time: 5:30-6:30 pm**

Thank you to everyone who volunteered during E-Week at the SciFest! We had a great time at the Science Center where we had an MSE wall and kinetic sand activity to demonstrate soil strength as well as a shake table to demonstrate the impact of an earthquake on buildings.



Pictured at the Shake Table: Rebecca Johnson

Contact Michelle Bresnahan, YMG Chair, at [MBresnahan@lochgroup.com](mailto:MBresnahan@lochgroup.com) if you would like to be added to the email list or if you have any questions or comments regarding the YMG Update.

## YMG 2022 Calendar

Join us for our monthly meeting and happy hour! This is a great way to meet other local engineers and catch up on our upcoming events and volunteer opportunities.

*\*Subject to change throughout the year*

<b>March YMG Meeting</b>	<b>April YMG Meeting</b>
<b>Wednesday, March 23, 2022, 5:30-6:30pm</b>	Wednesday, April 13, 2022, 5:30-6:30pm
<b>Happy Hour at Recess Brewing</b>	Happy Hour at Fieldhouse Pub and Grill
<b>307 N Main St, Edwardsville, IL 62025</b>	510 N Theresa Ave, St. Louis, MO 63103
<b>May YMG Meeting</b>	<b>June YMG Meeting</b>
Wednesday, May 18, 2022, 5:30-6:30pm	Wednesday, June 15, 2022, 5:30-6:30pm
Happy Hour at John D. McGurk's Irish Pub and Garden	Summer Social
1200 Russell Blvd, St. Louis, MO 63104	Location TBD



## Meet the Candidates

At the most recent Region 7 breakout session, the participants recognized an opportunity for a "Meet the Candidates" type of series for our newsletters to encourage our membership to vote in the ASCE election in May.

### Marsia Geldert-Murphey

My name is Marsia Geldert-Murphey and I have been an active St. Louis Section member since 1992 and was very honored to serve as the Section President in 2006. I wanted you to know I am an official nominee for the ASCE's 2023 President-Elect and asking for your support in the election that opens on May 1<sup>st</sup>. I selected this slightly unflattering picture of myself because it will help me share with you a story about what ASCE means to me. In March 2016, while in DC for the ASCE fly in, I was in an accident. ASCE members and staff visited me in the hospital in DC and in St. Louis after I was transferred. While home and recovering a client called and needed me on site where a local road had washed out and was closed to traffic and I designed a repair plan prior to my accident. His call was 5 months after my accident, but I was still not able to drive nor released to go back to work. The community was finally able to start constructing the repair and needed guidance on changed conditions since the wash out. This community needed my help, so I called a fellow ASCE member, friend and like me a geotechnical engineer who agreed to drive me out to the site, walk it, tell me the conditions, and help me assess the situation and collaborate on a solution.



This picture was taken during that site visit and thanks to my ASCE colleague's help the road was successfully repaired, and the community had access restored.

I share this because ASCE is not just a professional organization to keep my technical and leadership skills growing and sharp, which it does, but it is also my engineering family. And I would not be where I am today without the support, mentoring, friendships, and guidance I have received through ASCE. When I hear concerns about the cost of membership, I always think about what I have received in return, and it has been worth every penny. I could share specific details about what I would like to do as President, instead I will just say this, I want to lead ASCE to make sure our Society stays on the trajectory we have been on since our founding. To continue moving forward so we can provide the professional society experience and development to everyone in the next generations, and even better than, we have been blessed to experience in our career.



## *EWRI St. Louis News*

### **EWRI ST. LOUIS MONTHLY SPEAKER SERIES EVENT**

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, March 17, 2022 from 11:30 am-12:30 pm Central Time.**

This presentation will be broadcast live over a webinar. Registration is free to ASCE members. **Advance registration is required by noon, Monday, March 14, 2022.** Please register online at the following link:

[EWRI February 2022 Speaker Series Presentation](#)

Registrants will receive detailed login and dial-in information prior to the event.

#### **Next Generation Denitrifying Bioreactor to Remove N and P from Agricultural Runoff**

Nitrogen (N) and phosphorus (P) from agricultural activities contribute significantly to nutrient loading in surface water bodies around the world. This talk will focus on modifying the design of the denitrifying bioreactor by using woodchips and P adsorbents in tandem to remove N and P from simulated agricultural runoff. Our group has developed the fly ash pellets for orthophosphate removal, and the sorption bench testing showed a good promise for using it as an additional media in the woodchip bioreactor to remove P along with N.

#### **SPEAKER**

**Rabin Bhattarai, Ph.D., University of Illinois at Urbana-Champaign (UIUC).**

Rabin Bhattarai, Ph.D., is an Associate Professor of Soil and Water Resources Engineering in the Department of Agricultural and Biological Engineering at UIUC. He received Ph.D. in Agricultural and Biological Engineering from UIUC in 2011, MS in Water Engineering Management from Asian Institute of Technology (Thailand) in 2005, and BS in Civil Engineering from Tribhuvan University (Nepal) in 2002. The overall goal of his research group is to develop sustainable engineering solutions to improve water quality and crop production. Along with conducting laboratory, field, and watershed-scale studies, his group also evaluates, modifies, and develops simulation models for predicting water quality and crop production at various scales. The past and ongoing research projects in his research group are supported by multiple agencies, including the United States Department of Agriculture, Illinois Nutrient Research and Education Council, and Illinois Department of Transportation.

Thank you to our joint seminar sponsors, **EDM Incorporated and Southern Illinois University Edwardsville (SIUE)!**

Please contact **Rohan Benjankar, PhD** ([rbenjan@siue.edu](mailto:rbenjan@siue.edu)) with any questions, if you are interested in presenting, or have an idea for a topic.



**ENVIRONMENTAL &  
WATER RESOURCES  
INSTITUTE**  
St. Louis Chapter

*2022 Environmental & Water Resources Symposium/Workshop*

# **WATER, WATER, EVERYWHERE**

Join us for a full-day educational symposium/workshop for professional development to learn about water-related technical topics in our region, including the Metropolitan St. Louis Sewer District's current program and projects, and to develop skills useful in the region related to hydraulic analysis with HEC-RAS.

*Please have **HEC-RAS 6.1** [installed](#) on your computer for the training session.*

Virtual Symposium via Webex (link to be sent to registrants)

**Friday, March 11, 2022**

Technical Program 8:00 AM to 4:00 PM

6 Professional Development Hours  
Full-day Technical Program

**Who should attend:** Water resource engineers, environmental engineers, hydraulic engineers, water resource designers, MSD engineers, hydrologists, students, etc.

Cost:

\$40 for Members (EWRI, MSPE), \$50 for Non-members, Free for Students

[Online Registration](#)

**Questions?**

Dr. Azadeh Bloorchian

Spring Symposium/Workshop Chair, ASCE-EWRI St. Louis Chapter

636-343-5852 (work)

[azadeh.bloorchian@stantec.com](mailto:azadeh.bloorchian@stantec.com)

## St. Louis Geo-Institute News

### Call for Presentations at 2022 Case Histories Seminar and Student Projects

DATE: **Tuesday, April 26, 2022**

TIME: 5:00 pm to 8:30 pm

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

Registration includes a buffet dinner. PDH credit will be available.

The Geo-Institute is accepting presentation topics for our annual Case Histories Night. The committee is seeking speakers to provide a 60-minute presentation focused on geotechnical engineering projects. Please submit abstracts to Jake Schaeffer ([jschaeffer@millennia.pro](mailto:jschaeffer@millennia.pro)), Geo-Institute chair.

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 Xiaomin You ([xiaomin.you@wsp.com](mailto:xiaomin.you@wsp.com)), Geo-Institute vice chair. Click [here](#) for event flyer.

### ERC Dam Safety and Regulations with Geo-Institute

The Geo-Institute's Embankments, Dams and Slopes committee, and Federal Energy Regulatory Commission (FERC) representatives will present the new dam safety regulations! In this two-part virtual event, the first part, FERC, will give the new regulations and respond to some questions. This is the first update in 40 years!

**Date and Time: March 1st at 2 pm EST**

**Free registration:** [FERC Dam Safety Regulations Update](#)

### St. Louis Geo-Institute Scholarship Opportunities

The St. Louis Chapter of the Geo-Institute of ASCE is calling applications for a few scholarships, including:

- Alizadeh/Geotechnology Scholarship - Students pursuing a **Master's** degree in Civil or Geological Engineering with an emphasis in geotechnical or environmental engineering are eligible.
- GeoConfluence Research Scholarship - Students pursuing a **Master's** degree (thesis option) or **Ph.D. degree** specializing in geotechnical/geoenvironmental engineering at a university within the ASCE St. Louis Section are eligible.
- Shamsher Prakash Geotechnical Scholarship - Students pursuing a **Bachelor's** degree with an emphasis in Geotechnical or Geological Engineering at a university within the ASCE St. Louis Section are eligible.

Application and additional information can be found at <https://sections.asce.org/st-louis/geo-institute-chapter>

### St. Louis Geo-Institute Seeks Candidates For the Secretary/Treasurer Position

The committee is inviting all who are interested to participate the St. Louis Geo-Institute committee meetings! If you are interested in the Secretary/Treasurer position, please don't hesitate to contact our current officers:

- Chair: Jacob Schaeffer, [jschaeffer@millennia.pro](mailto:jschaeffer@millennia.pro)
- Vice Chair: Xiaomin (Sophie) You, [Xiaomin.You@WSP.com](mailto:Xiaomin.You@WSP.com)
- Secretary/Treasurer: Travis Kassebaum, [travis.kassebaum@terracon.com](mailto:travis.kassebaum@terracon.com)

### SuperPile 2022

Save the Date for SuperPile '22 which will be held in St. Louis, **June 15–17, 2022**. Please check the event website at <https://www.xcdsystem.com/dfi/program/2D2hmzD/index.cfm>

The technical committees of DFI and ADSC combined their industry expertise to organize SuperPile '22. This three-day conference includes presentations on the latest developments in:

- Driven piles
- Augered cast-in-place/drilled displacement piles
- Micropiles
- Marine foundations
- Testing and evaluation of foundation systems
- Seismic and lateral loads
- Drilled shafts
- Ground improvement (related to piling)
- Helical piles and tiebacks

### Next GI Meeting

The next GI meeting will take place on Tuesday (03/08/2022) morning at 10:30 AM. It will be an in-person meeting. Contact [Travis](#) for meeting details.



## History & Heritage Committee Update

The St. Louis Section is home to a number of historic civil engineering achievements. There is a list of 20 [landmark](#) achievements under [Resources](#) on the St. Louis Section's webpage with a map. Four of these have been named National Historic Civil Engineering Landmarks (NHCEL) by the National ASCE. These are: Eads Bridge, Union Station, the Chain of Rocks Water Filtration Plant and the River Des Peres Sewerage and Drainage Works beneath Forest Park. We are working on several important projects which hopefully will come to fruition this year.

The Eads Bridge was named a NHCEL in 1971. Unfortunately, the bronze plaque has been missing for more than a decade. The St. Louis Section plans to replace the plaque and has the enthusiastic support of the St. Louis Metro. David Lobbig, Curator of Environmental Life at the St. Louis Missouri Historical Society, has been helping us craft the plaque. We also hope to place a display focusing on the civil engineering achievements of the Bridge in the St. Louis Station with the NHCEL plaque. We hope to place a plaque in the East St. Louis Station, too.

The Eads Bridge will be 150 years old on July 4, 2024! The St. Louis Section has been asked to lead the effort to organize a celebration in honor of this historic anniversary, similar to those for the Brooklyn Bridge and the Golden Gate Bridge.

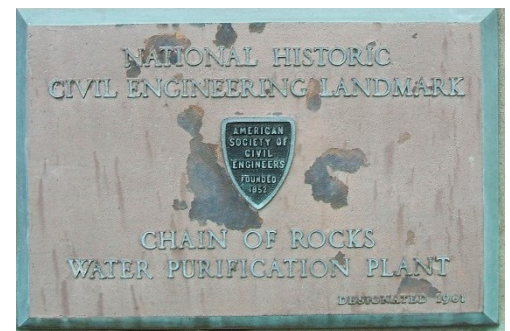
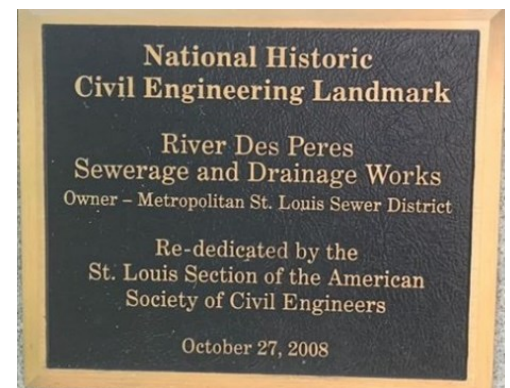
The Gateway Arch is 50 years old and is now eligible to be named a NHCEL. We have been discussing this with the National Park Service, who has agreed to mount the plaque inside the entrance to the museum below the Arch. We are working on the nomination and the citation for the NHCEL plaque. The museum already has exhibits on the design and construction of the Arch.

The National ASCE History & Heritage Committee is planning to name the Route 66 as a NHCEL. St. Louis is a significant part of Route 66 and the St. Louis Section has been asked to help with the nomination and commemoration.

The St. Louis Section has had a display of civil engineering achievements which is used at programs in schools, career fairs and the St. Louis Science Center. We are currently revamping the display to make it more portable and easier to use. We are interested in large photographs of recent significant civil engineering projects in our region.

There is much more that the St. Louis Section could do to celebrate civil engineering achievements in our region and to educate the public about the vital role of civil engineering. If you would like to be part of the St. Louis Section History & Heritage Committee, please contact Jeff Fouse at [jfouse@reitzejens.com](mailto:jfouse@reitzejens.com).

Union Station and River Des Peres NHCEL plaque photos above are from the corresponding pages on the ASCE History and Heritage website at <https://www.asce.org/about-civil-engineering/history-and-heritage/historic-landmarks>.



## Work Zone Awareness Run

Help us raise awareness for safe driving as the construction season kicks off with National Work Zone Awareness Week! We're hosting a 5K Run and 1 Mile Fun Run/Walk for all ages! Everyone gets a short sleeve high visibility moisture wicking t-shirt for safety while running outside. Get out in the spring weather and spread the message to **Work Safe. Drive Safe. Save Lives.**



Timed 5K, 1-Mile Fun Run,  
or Virtual Supporter

**SAT., APRIL 9 @ 8 A.M.**

**MoDOT Transportation  
Management Center**

14301 S Outer Forty Rd  
Chesterfield, MO 63017

**Register to run **here.****

[runsignup.com/Race/MO/Chesterfield/WorkzoneAwareness5K](https://runsignup.com/Race/MO/Chesterfield/WorkzoneAwareness5K)

**#WZARUN**







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## WATERSHED SCHOLARS

SOUTHERN ILLINOIS UNIVERSITY  
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**Interested in a Master's degree focusing on watershed science?**

Receive \$10,000 each year for two years and a tuition waiver.

## Apply to the Watershed Scholars Program at SIUE!

The NSF S-STEM Watershed Scholars program offers opportunities to Graduate Students specializing in the Watershed Sciences in Biology, Chemistry, Engineering, and Environmental Sciences.

### Research Opportunities:

*Students will receive:* Tuition waiver, \$10,000 scholarship for each of the two years they are in the program, funding to attend conferences, funding to complete their research and purchase research equipment and tools.

*Students will participate in:* thesis & research workshops, career panels, scientific and technical seminars, and mentoring from a variety of sources,.

*Students will gain skills in:* presenting, grant applications, and publishing.

### Eligibility and Application Requirements:

Eligible students should have an income of \$22,540 or less at program start date. Scholars must be U.S. citizens, permanent residents, or admitted refugees.

1. Apply to your program of choice (Biology, Chemistry, Civil Engineering, or Environmental Sciences) at SIUE.
2. Submit a FAFSA (Free Application for Federal Student Aid).
3. Submit an application at the link below. Provide a written statement (250-500 words) describing your interest in watershed research and, if applicable, any prior relevant research experience.

***Application Due:  
March 31, 2022***

and will be considered on a rolling basis thereafter if funding is available.



<http://www.siestemcenter.org/s-stem-watershed-scholars-program/>

**Questions?**

Contact  
Dr. Adriana E. Martinez:  
[admart@siue.edu](mailto:admart@siue.edu)





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# Join the Prairie Team



*Prairie Engineers is a team of forward-thinking engineers, surveyors, and scientists solving problems for agencies that improve and preserve public works across the United States. Since our founding in 2010 we have developed expertise in delivering quality products, built a strong network of teaming partners, and instilled a responsive “can do” culture in our firm. These attributes are just a few examples of what continues to set us apart as a small business delivering big results.*

## Generous Benefits



### Flexible work arrangements.

We accommodate the non-traditional. Have a non-routine schedule? Want a part-time professional position? Need a personal leave of absence? Or want to work from home or a office/home hybrid? Talk to us - we can try to make that work.



### Ample time-off.

We give 160 hours of PTO to staff with under 10 years of experience and 200 hours of PTO to those over. In addition, we'll give you an extra 8 hours for every 5 years with our company



### Paid premium overtime.

The first 80 hours of overtime goes into a comp time bank which you can use as additional paid time off. If you work more overtime than that, we pay 1.5x your hourly pay rate. Not just for entry-level positions, but for most professional positions.



### A bonus that rewards your efforts.

We want people who will work hard with a “can-do” attitude and give our clients top notch service, and we expect to reward you for that effort! We distribute approximately half (yes, half!) of our post-tax profits in our bonus program.



### Robust benefits package.

A fully paid health insurance premium combined with an HRA for your annual deductible pays 100% of your routine and minor healthcare costs. Plus, life, AD&D, short term and long term disability – with all insurance effective on day 1 of your employment. A 401k that doesn't require a match – you'll get 3% AND the freedom to invest your money how you want.

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Senior Water Resources Engineer

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## NTT Professor of Practice - Engineering

The School of Engineering in Parks College of Engineering, Aviation and Technology at Saint Louis University seeks dynamic, collegial, collaborative, and creative applicants for a full-time, non-tenure-track instructor to join our first-year engineering team. Applicants should be interested in developing and delivering engaging, hands-on learning experiences to undergraduate engineering students in a team-oriented, student-focused environment. Faculty appointments are targeted for the instructor level; however, candidates with exceptional qualifications will be considered for appointment at a higher level. We particularly seek faculty members with background and experience performing engineering in industry settings. This grant-funded position will focus on instilling entrepreneurially minded learning in our undergraduate engineering students.

**Apply Online:** [https://slu.wd5.myworkdayjobs.com/en-US/Careers/job/McDonnell-Douglas-Hall/NTT-Professor-of-Practice\\_2021-02181](https://slu.wd5.myworkdayjobs.com/en-US/Careers/job/McDonnell-Douglas-Hall/NTT-Professor-of-Practice_2021-02181)

### Responsibilities:

- Develop and deliver engineering design and introductory engineering courses in support of the college's undergraduate teaching mission
- Create engaging and relevant experiences to develop entrepreneurially minded engineers
- Collaborate with other faculty members to innovate dynamic new learning experiences for diverse students
- Mentor undergraduate students
- Collect data and conduct assessment of learning outcomes
- Participate in departmental and college service

### Minimum Qualifications:

- An earned bachelor's degree in engineering or a closely related field
- Demonstrated potential for excellence in teaching

### Preferred Qualifications:

- An earned master's degree in engineering or a closely related field
- Expertise in teaching introductory engineering courses or engineering design
- Relevant industry experience

**Saint Louis University is a Catholic, Jesuit institution dedicated to student learning, research, healthcare, and service.** Parks College of Engineering, Aviation and Technology, founded in 1927, offers academic programs of excellence that integrate the education of the whole person with classroom and hands-on experiences in the major field of study. Laboratory coursework and undergraduate research are hallmarks of the student learning experience at Saint Louis University. The college offers ABET accredited bachelor's degree programs in Aerospace, Biomedical, Civil, Computer, Electrical and Mechanical Engineering, and AABI accredited bachelor's degrees in Flight Science and Aviation Management. M.S. and Ph.D. programs in engineering and aviation are also offered.

Saint Louis University is an equal opportunity/affirmative action employer. All qualified candidates will receive consideration for the position applied for without regard to race, color, religion, sex, age, national origin, disability, marital status, sexual orientation, military/veteran status, gender identity, or other non-merit factors. We welcome and encourage applications from minorities, women, protected veterans, and individuals with disabilities (including disabled veterans). If accommodations are needed for completing the application and/or with the interviewing process, please contact Human Resources at 314-977-5847.



## ST. LOUIS CHAPTER MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS

Instructor needed for the Roadway Class for the MSPE Civil PE Refresher Course!  
This would be for one Saturday in February or March from 8 am to 12 pm, teaching materials are already prepared, and the position is paid. A PE license is required.  
Contact Lisa Cheng for more information at [Lisa.Cheng@hdrinc.com](mailto:Lisa.Cheng@hdrinc.com)

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### Positions available at EDM

#### **Accountant Position**

A St. Louis design firm has an opening for a full-time accountant. Salary is commensurate with experience.

#### **Some of the Responsibilities include:**

Providing financial and project reports for management, Maintaining all corporate financial records, Maintaining project management system including cost accounting and progress reporting, Maintaining personnel records and payroll, Preparing invoices, Supervising account receivables collections.

#### **Accountant Qualifications:**

Self-starter capable of working independently.  
Experience with all aspects of Architectural/Engineering firm accounting  
Good communication skills – internal and external  
Skilled in using MS Excel, MS Word and Deltek Vision accounting software.

#### **Education, Experience, and Licensing Requirements:**

Bachelor's or master's degree in accounting or finance  
Minimum 5 years' experience in accounting/finance

Must be a U.S. citizen or lawfully authorized alien worker.

#### **Marketer Position**

A St. Louis design firm has an opening for a full-time Marketer. Salary is commensurate with experience.

#### **List of some of the Responsibilities**

Responsible for the preparation, design and coordination of RFQ/RFP responses.  
Participate in RFQ strategy planning, including screening RFQ for unusual or challenging requirements.  
Create, organize and update all marketing/business development materials, including overviews, project description pages, staff resumes, advertisements, social media releases/posts, and project award applications.  
Accountable for final quality check/proofreading of grammar and compliance for all responses and marketing material.

#### **Qualifications**

Associate's or Bachelor's degree in Communication, Marketing, Journalism or related field.  
Software experience with InDesign, Photoshop, and MS Office Suite, especially Excel, Word and PowerPoint.  
Possess strong verbal, written and graphic communication skills.  
Experience with SF330 forms is a plus. A similar position with a firm in a related field (architecture/engineering/construction/real estate) is desired, but if not, willing to learn all facets of AEC marketing.

The firm is an employee-owned equal opportunity employer. For immediate consideration, email your resume to Gholam Masoumy, President, EDM, at [Gholam.masoumy@edm-inc.com](mailto:Gholam.masoumy@edm-inc.com).

At DMA, we engineer the foundations of communities. Our business is to create and preserve the Nation's infrastructure. We design and assess highways and bridges, buildings, sewers and tunnels, and electric and gas networks used by millions of Americans every day. We work on iconic projects – international airports, national monuments, universities, hospitals and medical campuses, sports stadiums, and so much more.

Our family-first and hard-working culture stretches far beyond the name of Mason. We believe everyone works together, an "all oars in the water" approach to help everyone succeed. Our team members are like extended family and we collaborate to serve our customers with integrity.

**We are energized by the challenge and inspired by our people.**

## CURRENT OPENINGS (St. Louis Office)

Benefits package includes health, dental, life, long-term disability, and long-term care insurances, 401k, holidays, PTO and every other Friday OFF.

**STRUCTURAL PROJECT MANAGER** - Minimum 10 years of experience; Licensed PE or SE; Bentley RAM Modules, RISA 3-D and L-Pile. Knowledge with using AutoCAD and REVIT is a plus.

**STAFF STRUCTURAL ENGINEER** - Minimum 5-8 years of experience; RISA, RAM, L-Pile, AutoCad software is required. REVIT experience is a plus.

**CIVIL STAFF ENGINEER** - Minimum 2 years of experience; AutoCAD-Civil3D and exposure to engineering modeling software such as HEC-HMS, HEC-RAS, preferred; requires an Engineering Intern (EI) Certification with intentions of pursuing and obtaining a Professional Engineering (PE) License.

**CIVIL ENGINEERING CAD DESIGNER** - Minimum 5-8 years of experience; AutoCAD / with a focus on civil engineering design. Experience should include site layout, grading, drainage and utility design projects. Civil 3D experience preferred. A working knowledge of Microstation is a plus.

**DRAFTER/DESIGNER – ELECTRICAL UTILITY** - Minimum 5-10 years of experience; knowledge of Bluebeam and a proficiency for Bentley MicroStation, AutoCAD, and/or comparable applications; working knowledge in utility, transmission, and power distribution applications, associated with the design modification of schematic, wiring and interconnect diagrams.

For all career opportunities at DMA, and to apply, visit: [davidmason.com/careers](http://davidmason.com/careers)

 Health	 Dental	 Life	 Long-Term Disability	 Long-Term Care	 401(k) Option
 Great Culture + Team	 Professional Growth Opportunities	 Family Environment	 Every Other Friday Off	 Equal Opportunity Employer	

St. Louis | Chicago | Philadelphia

[davidmason.com](http://davidmason.com)



## Lochmueller Group has great opportunities for Structural Design or Bridge Engineers to join our team!

This is an excellent opportunity to join a growing firm and immediately put your design skills to work on a variety of projects, including highways and bridges for various local public agencies and state DOT's, miscellaneous structural design elements to support other business units, and design-build pursuits.

Candidates must have a Bachelor's degree in Civil or Structural Engineering and be registered as a Professional Engineer; Structural Engineer registration is a plus. **Project Engineer candidates will also have a minimum of 5 years of experience in bridge and structural design.** The position responsibilities include:

- Develop calculations as necessary for structural engineering components on projects.
- Assist CAD technicians to develop structural plans and develop construction specifications for state and municipal transportation projects.
- Perform structural design and develop details as related to roadway bridges, various types of retaining walls, culverts, miscellaneous reinforced/prestressed concrete and structural steel design.
- Act as part of a team of professionals headed by a Project Manager. Candidates must be able to work independently or as part of a larger design team and interact well with the manager and other members on various aspects of the project.
- Prepare cost estimates, calculate quantities, and assist in writing technical engineering and design reports.
- Utilize various structural design and rating software, spreadsheets, and drawing packages (Microstation or AutoCAD) to design and analyze structural components.
- Visit job sites as needed to support projects.
- Perform other duties as assigned.

Experience with Missouri and Illinois DOT projects and/or local agency projects is preferred, as is an understanding of the policies and procedures of these agencies. Proficiency with Microsoft Office products including Excel, Word, and PowerPoint required. Previous experience utilizing seismic analysis and design is also preferred.

**Project Manager or Team Leader candidates should have a minimum of 10 years of experience including** five or more years managing project budgets and financial performance; work assignments for the team; project schedules; and client communications and management. In addition, experience with project pursuits and procurement is strongly desired, including team building; cost estimating; scope development; and proposal writing or presentation.

We also accommodate work-from-home hybrids (depending on experience and assignment specifics), though periodic engagement with various team members is required.

**Benefits:** Lochmueller Group is now an Employee-Owned Company, and we would be excited to have you to join our talented group of employee-owners! In addition to our ESOP, we provide a 401(k) plan, rich coverage for major medical insurance, basic life insurance, short-term and long-term disability insurance, generous vacation and sick leave, Student Loan Repayment benefit, and several others.

**CARDIA:** Means "from the heart" and it is what our values and culture represent here at Lochmueller Group. Creativity; Accountability; Respect; Dedication; Integrity; Achievement – that is what sets us apart from the others!

Check us out at [www.lochgroup.com](http://www.lochgroup.com) or submit your resume to: [jkelly@lochgroup.com](mailto:jkelly@lochgroup.com).

## Structural Engineer position at Special Inspections and Design

### **DESCRIPTION**

We are seeking an experienced Structural Engineer (5+ years experience) for an opportunity to work on a wide variety of projects. The position will be based out of our Collinsville, IL office. You will be responsible for analysis and design of structural systems and components using structural steel, concrete, masonry, wood, and light gage steel. Your duties will include preparation of construction and repair drawings, demolition plans, visual structural inspections, report preparation, and construction review.

### **QUALIFICATIONS**

Qualified candidates must have:

- BS in Civil Engineering (MS is a plus).
- PE license (SE is a plus).
- Minimum 5 years experience.
- Working knowledge of structural engineering software (RISA is ideal).
- Working knowledge of IBC and other national standard codes.
- AutoCAD proficiency is a plus.
- Good written and oral communication skills.

### **TO APPLY**

Please send resume and any questions to Ashlee Peno at [ashleepeno@SIDengineers.com](mailto:ashleepeno@SIDengineers.com)

For more information about our company please visit [www.SIDengineers.com](http://www.SIDengineers.com)



# CIVIL DESIGN, INC.

## WHO WE ARE

At CDI, we strive to help our clients create quality infrastructure while also contributing positively to our communities. Our culture is centered around a fundamental commitment to **Building Stronger Communities**, meaning our team of passionate individuals is dedicated to revitalizing the spaces that contribute to our daily lives. Since its founding in 1996, CDI has grown to over 80 team members with 35 engineers and six services, including **Infrastructure + Analytics, Site, Structures, Survey, Transportation, and Water Resources**.

## JOIN OUR TEAM!

### Water Resources Leader

Effingham, IL | Louisville, KY | St. Louis, MO

### Experienced Structural Engineer

St. Louis, MO | Louisville, KY

### Site Project Engineer (Mid-Level)

Louisville, KY

### Programming Engineer

St. Louis, MO

### Professional Land Surveyor

Louisville, KY

### Senior Water Resources Project Engineer

St. Louis, MO

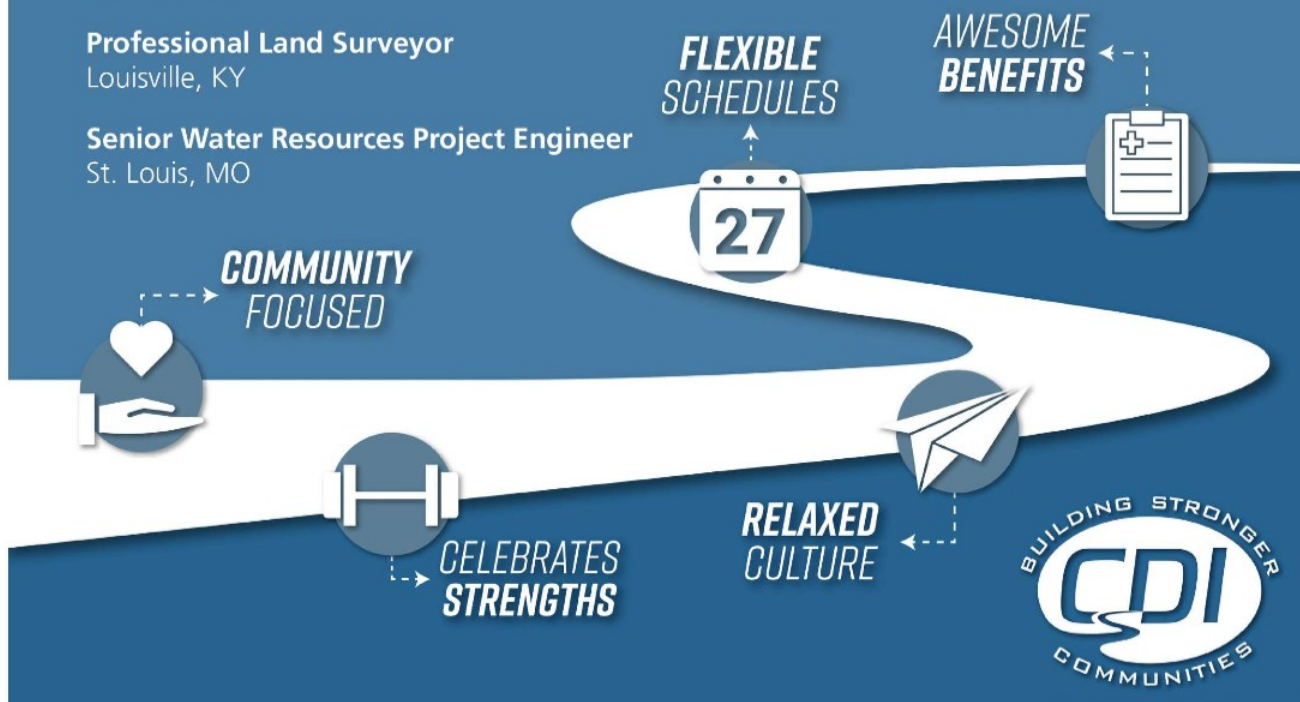
## OUR VALUES

PERSONAL OWNERSHIP

MUTUAL TRUST & RESPECT

CONTINUOUS LEARNING & GROWTH

RESPONSIVENESS



LEARN MORE OR APPLY AT [WWW.CIVILDESIGNING.COM](http://WWW.CIVILDESIGNING.COM)



# WE'RE HIRING

## DESCRIPTION

The right candidate is a degreed engineer with experience with industrial and/or bridge projects. Duties will include preparation of design drawings, specifications, and reports, as well as generating studies and cost estimates. Successful candidates should have experience designing industrial and/or bridge structures using applicable codes (IBC, AASHTO, ASCE-7), as well as material design codes (AISC, ACI concrete, ACI masonry, etc.). Proficiency using finite element software (STAAD, RISA), CAD, and spreadsheets is required. Individual shall be self-motivated, able to manage time effectively, and able to stay within defined project budgets and work scopes. Good people skills are necessary to work collaboratively as part of a design team and to communicate with clients, other project personnel, and management.

This individual should also be able to work independently and collaboratively. Good people skills and willingness to travel (on occasion) are a must.

## REQUIREMENTS

- B.S. Degree with Emphasis in Structural Engineering
- Licensed Professional Engineer or Ability to Become Licensed
- 3-10 Years of Relevant Experience

## CULTURE

- Fun, Collaborative Work Environment
- Challenging & Fulfilling Projects Across Multiple Markets
- Professional Development & Networking Opportunities
- Tuition Reimbursement

## HOW TO APPLY

Please visit <http://www.cdgengineers.com/careers/> or email your resume to [careers@cdgengineers.com](mailto:careers@cdgengineers.com).

*CDG Engineers, Inc. is an Equal Opportunity Employer and does not discriminate on the basis of race, religion, color, national origin, age, sex, gender, disability, genetic information, or any other characteristic protected by law.*

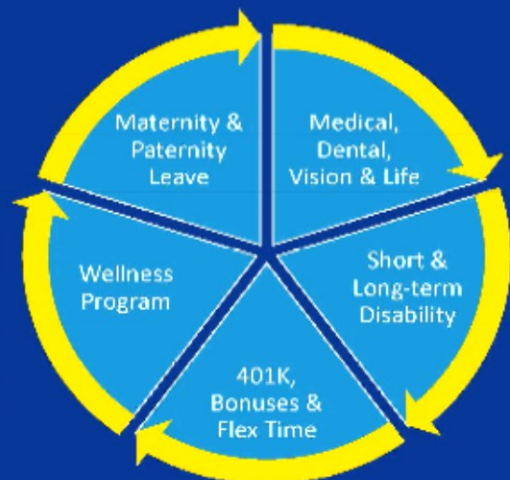
## STRUCTURAL ENGINEER



**CDG's greatest strength is our culture of commitment to the brightest people**

CDG is looking for a degreed structural engineer to join our St. Louis, MO office. CDG is a multi-discipline consulting engineering firm headquartered in St. Louis. The firm has approximately 80 personnel with capabilities in civil, structural, mechanical, electrical, and architectural disciplines primarily servicing the fields of infrastructure, power, mining, industrial, and agriculture. CDG is known for solving some of the most complex problems in challenging environments and our staff is expected to regularly engage in high level problem solving to enable our clients to be successful.

## BENEFITS





## **Civil Engineer/E.IT or P.E – Competitive – Wentzville, Missouri**

### **The Role**

Are you an innovative civil engineer with project management experience? If so, Cochran Engineering, one of the largest engineering firms in St. Louis, are looking for a Civil Engineer/E.IT or P.E.

The successful candidate will perform as a project manager, supervising the execution of work and ensuring that the firm maintains its high quality standards.

The key responsibilities of a Civil Engineer/E.IT or P.E include, but are not limited to:

- Performing engineering design.
- Preparing technical reports.
- Building and maintaining positive external relationships with clients, and internal relationships with colleagues.
- Providing direction, coordination, quality assurance, and quality control to engineering colleagues.
- Leading by example, operating with integrity and sound business principals.

### **The Company**

Cochran Engineering is an established, multi-location civil engineering and land surveying firm currently ranked among largest engineering Firms in the St. Louis area by the St. Louis Business Journal.

With 60 years' experience, we are dedicated to building long-lasting client relationships and have an outstanding reputation for superior customer service.

### **The Benefits**

- Simple IRA with 4% Company Match.
- Company paid medical, dental, vision, life and long term disability Insurance.
- Flexible benefits plan.
- Paid vacation/sick time and holidays.
- Professional development training.
- Compleitive salary, commensurate with experience.
- Relocation package may be available for this position.

### **The Person**

The essential skills and qualities of a Civil Engineer/E.IT or P.E:

- E.I.T. or P.E. in the State of Missouri.
- 3 to 5+ years' experience in Civil Design.
- Bachelor's Degree – Civil Engineering.
- Proficiency with AutoCAD and Civil 3D.
- Project management skills.
- Areas of expertise may include but are not limited to: roadway, site design, commercial design, water and sewer, and/or residential development.
- Experience with design of hydraulics, hydrology, grading and overall site development is desired.



If you are interest in joining this forward-thinking company, please submit your resume to [msample@cochraneng.com](mailto:msample@cochraneng.com).



**Job Title: Roadway Engineer**

**Location:** Chesterfield, MO

EDSI has an immediate opening for a full time Roadway Engineer with 4-10 years of experience. The ideal candidate will have a strong interest in detailed design work as well as the ability to interact with clients and contractors. Responsibilities include a broad range of planning and design tasks such as roadway design, roadway rehabilitation, ADA compliant designs, bike and pedestrian trail design, traffic signal design, geometric layout, drainage/hydraulics and quantity development. The position requires competent skills to complete feasibility reports and prepare conceptual, preliminary and construction plans and bid documents for a variety of public and private clients.

Requirements include a B.S. in Civil Engineering from an ABET-Accredited University, Professional Engineer License or plan to obtain a P.E. License, proficiency in AutoCAD Civil 3D and GeoPak, an understanding of construction and bid documents including project specifications and strong technical writing, analytical and communication skills.

**Job Title: Engineering CAD Technician**

**Location:** Chesterfield, MO

EDSI has an immediate opening for a full time Civil Engineering CAD Technician. The ideal candidate should have 3-5 years of experience in design drafting of transportation related projects. Responsibilities include assisting both project managers and engineers with the design and layout of engineering drawings, development of engineering details, preparation of conceptual layouts for highway, roadway and street projects including drainage design, intersection layouts and utility location.

Job Requirements:

- Proficient in AutoCAD, and/or MicroStation design and drafting software
- Work independently, plus the ability to coordinate effectively with multi-disciplined project teams
- Ability to read construction and engineering documents
- Possess workload management skills to meet deadlines
- Detail-oriented

**Job Title: Structural/Bridge Engineer**

**Location:** Chicagoland

Engineering Design Source, Inc. (EDSI) is a vibrant Civil Engineering and Surveying Firm. We are currently expanding our Bridge Department and are looking for a Structural/Bridge Engineer to join our team in Chicagoland. The qualified applicant will have a minimum of 4 years of structural design experience and be a registered PE. Licensure as an SE is beneficial. The main focus of the applicant's experience should be bridge design. The ideal applicant will have experience successfully completing State Department of Transportation projects. The applicant shall be proficient in the completion of structural calculations and preparation of plans and specifications from the preliminary design phase through final PS&E documents. Strong communications skills and technical writing abilities are required. Computer capabilities for structural design and drafting are required. The ability to successfully collaborate and work as an integral member of a professional design team are required.

Requirements of Position:

- Location: St. Louis, MO (Remote work or in office)
- Licensing: PE (minimum), SE (beneficial)
- Experience: 4 years (minimum)
- Education: BSCE (accredited, minimum)
- Computer Program Proficiency (minimum): LEAP Bridge Concrete CONNECT, LPILE, Excel, MicroStation V8i, Word, PowerPoint

Please send resume to: [Hiring@engdesignsource.com](mailto:Hiring@engdesignsource.com) <http://engdesignsource.net/>



## **JOB OPENINGS**

Horner & Shifrin, Inc. is currently looking for candidates to fill the positions of:

**CAAD Technician (Structural Bridge)**

Associate in Applied Science degree in Drafting Technology, St. Louis

**Project Manager (Water/Wastewater)**

7+ years' experience in drinking water, wastewater and/or storm water design

**Electrical Engineer**

5+ years' experience, knowledge of the National Electrical Code, St. Louis

**Project Manager (Structural Building)**

10+ years' experience, LPE, proficient in AutoCAD, Revit Structure & Ram Structural System

**Project Manager (Transportation)**

10+ years' experience, knowledge of GEOPAK SS4 or Civil 3D, Poplar Bluff, MO Northwest Arkansas

**Project Manager (Transportation)**

10+ years' experience, knowledge of GEOPAK SS4 or Civil 3D, Poplar Bluff, MO

**Engineer (Transportation)**

Entry-level, EIT certificate preferred St. Louis

**GIS Analyst**

5+ years' experience, BS in Geography Computer Science or related field, St. Louis

**Project Engineer (Transportation)**

5+ years' experience, proficient in MicroStation and Geopak SS4, Chicago or St. Louis

Please visit our website at [www. https://www.hornersshifrin.com/careers/](https://www.hornersshifrin.com/careers/)



## Submit items to the newsletter...

Please send all announcements for placement in the newsletter to the Newsletter Editor by the **20<sup>th</sup> of the month prior to the month of publication**. Items may be sent via e-mail to Brent Vaughn (ASCE newsletter editor) at [brent.vaughn.asce@gmail.com](mailto:brent.vaughn.asce@gmail.com).

**MS Word files are the preferred file type**, especially where there are multiple hyperlinks and the formatting and graphics are relatively simple. Floating text boxes, floating images and embedded tables frequently cause formatting problems, so please avoid those. PDFs are welcome to show the desired end result and can be more useful where the doc contains lots of graphics content and just one hyperlink, but text and image sharpness may degrade since we will likely need to insert the doc as an image. (I may be able to insert the PDF, but the formatting typically does not convert well.) I will be delighted to work with you to get the best end-product for the newsletter.

For multiple page announcements, please provide a single-page flyer, concisely worded, with links provided to ancillary pages such as registration forms or other attachments. Also, please clearly include in the email subject line a concise title for the announcement and desired month(s) of publication.

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

For more information and updates see our Web Page: <http://sections.asce.org/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).**



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