

March 2016

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EWRI Spring Seminar – "Water,
Water, Everywhere"



March Luncheon

11:15 am to 1:00 pm, Tuesday March 8, 2016

Underpinning and Structural Support of an American Icon

Speaker: Jeff R. Hill, P.E.

Topic

Jeff Hill will discuss work completed in the 2nd and 3rd off-season of the half billion dollar renovation of Wrigley Field. The specialist foundation contractor utilized micropiles for underpinning of existing wedding cake footings, as well as support of new columns. In other areas, jet grouting provided underpinning as well as earth retention for a cut and cover tunnel extending below the concessions and concourse from the dugouts to a proposed luxury players clubhouse. Conventional braced sheeting was installed to allow additional storage and concession areas. Because of the proximity to the National Register of Historic buildings, all of this work was monitored in real time using electronic monitoring devices.

Bio

Jeff Hill has worked in the specialty geotechnical field since graduating from University of Illinois in 1999. He has been responsible for the design and construction of projects including ground modification, grouting, conventional and specialty deep foundations, and earth retention. He is the author or co-author of numerous technical papers and was involved in writing and updating various sections of the AREMA Guidelines Specification for Railroads in North America.

Jeff is an Area Manager and Director with Hayward Baker. His duties include development and implementation of corporate strategies, development of large projects, and the national lead for rail services. He is a registered professional engineer in Missouri, Illinois, and Arkansas. Jeff has worked on many local projects including the BNSF Missouri River Bridge near West Alton, Lock & Dam Nos. 24 & 25, Cupples Station Building 9, Holcim Cement Plant, and St. Charles Ameristar Casino.

Details/Reservations

Reservations can be made at the following link to the right:
Cost: \$15/person, students \$5, members in transition \$5
(checks payable to ASCE).

Contact the Engineers' Club for reservations by noon the Friday before the event. Email: info@engineersclub.net

<http://goo.gl/rGFhcE>



ASCE is charged for all reserved lunches. If you've signed up and can't make it, please cancel by the Friday before the meeting or we will have to charge you for the meal. 1 PDH is typically awarded to attendees.

Officers & Directors 2015 - 2016

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President's Message

Michael Buechter

Hopefully, along with enjoying the recent warm weather, you were able to enjoy EWeek (February 21-27, 2016). Myself I enjoyed Bryce G. Rutter's Ph.D. discussion at the EWeek joint society luncheon. Dr. Rutter is the founder of Metaphase Design Group, Inc., an award winning firm specializing in Ergonomic Design, and he spoke on the importance of innovation, design and minding details. According to Dr. Rutter good design matters, it fundamentally defines your Brand, drives revenue, and increases shareholder value. But perhaps most importantly engineers and good design have a real impact on the products people use every day and ensuring those products add value to everyday experience.

I found Dr. Bryce's talk particularly poignant in light of the most recent issue of Civil Engineering Magazine. Included in the most recent issue are the results of a recent survey presented in the United Kingdom outlining the public's perception of engineering. The international survey of 10,000 people found that the public has a largely positive view of engineers, believing that they are typically driven by purpose, intelligent, creative, and of course adept at math. Further, according to the study, people around the world recognize that engineering is key to progress and innovation and will play a key role in solving challenges that humanity will face for years to come.

Also included in the same issue is a note from Mark W. Woodson, P.E., L.S., D.WRE, F.ASCE and the current president of ASCE. President Woodson asks what is the best way to interest young people in engineering? His answer: tell them they can change the world! He suggested our message to young people should center around four EWeek themes:

- Engineers make a world of difference.
- Engineers are creative problem solvers.
- Engineers help shape the future.
- Engineering is essential to our health, happiness, and safety.

I am often asked to speak to high school students at various functions. Personally, I have found that stories of outstanding engineers, James Eads being one of my favorites, are well received and, according to feedback from the students, is a welcome change from the normal, "Are you good at math?" My own experience has shown a celebration of creativity can help reach young people and also reinvigorate my own approach to the profession.

So hopefully you had a wonderful EWeek and can emerge with renewed excitement on creativity and problem solving. If you have any questions about anything related to EWeek or wish to become more active in ASCE please call or email me, Michael T. Buechter at 314-768-2772 or mtbuec@stlmsd.com. Also do not forget our very own EWRI Spring Seminar, Water, Water, Everywhere, on March 31st at the Engineering Center. It promises to be a great event that should spur our own creativity.

Happy EWeek!

Michael T. Buechter,

ASCE STL Section Business

Director of St. Louis ASCE Section Nomination

Mr. Christopher A. Toenjes, P.E. has been nominated for the position of Director for the St. Louis Section of ASCE beginning in October 2016.

Additional nominations may be presented to the Section President, Michael T. Buechter, P.E., at the March membership (luncheon) meeting. Additional nominations must be made in writing and signed by ten (10) Subscribing Members.

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.” The respective director will provide support, including society guidelines, resources, and past-chair contact information.

ASCE St. Louis Section Department of Technical Development Openings.

Construction Committee – The goal of the Construction Committee is to provide opportunities for members to enhance their technical skills, become informed about products and methods in the construction industry, and to network with others having like interests. This is a great opportunity to market ASCE to CEs who work in the construction industry.

Please contact Jordan Pettibone (jepettibone.asce@gmail.com) to further discuss the details

ASCE St. Louis Section Department of Administration Openings.

Annual Dinner Committee – The Committee will be responsible for arranging the Annual Dinner held in mid-September on a Friday or Saturday evening. Responsibilities also include coordinating all arrangements for the event including submitting a budget, identifying event venue and menu options, arranging for contracting with and payment to vendors, arranging the event program, and other related activities.

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

Public Information Coordinator – The Coordinator will be responsible for increasing public awareness of ASCE and civil engineering within the local community and to gain recognition of the Section within the Society. The Coordinator will organize press releases to local publications regarding special activities and local and national awards, as well as articles to highlight Section activities for ASCE publications.

Please contact John Weiland (jweiland@wadetrim.com) to further discuss the details of operating one of our Administrative committees.

ASCE St. Louis Section Department of Professional Development Openings.

Career Guidance Committee – The Committee will be responsible for outreach and information to elementary, middle school, and high school students regarding civil engineering. This information includes what how to become a civil engineer, and how civil engineers improve the quality of life for all citizens. Activities include classroom presentations, participation at career fairs, Engineers’ Week Science Center Display, and other STEM-outreach activities.

Continuing Education/Attendance Committee – The Committee will be responsible for greeting members and guests at general membership meetings, collecting event fees, documenting attendance, providing PDH certificates to attendees as appropriate, and notifying the president of any unanticipated dignitaries at the events.

Younger Members Committee – The Committee provides opportunities for associate members (under the age of 35) of the Section to actively participate in the Section and express their views. Activities include hosting the May membership meeting, holding a Trivia Night or other annual fundraiser, participating in the Engineers’ Week event at the Science Center, updating Section Traveling Display Board, organizing social events for younger members, among other activities.

Program Committee – The Committee selects program topics of interest and arranges guest speakers for the Monthly Membership Meetings, providing opportunities for PDHs to be awarded to attendees. The Committee is also responsible for all aspects of hosting the annual Holiday Social, including arranging the venue, menu, price, and event advertisement. Please contact Alison Graves (alison.graves@jacobs.com) to further discuss the details of operating one of our Professional Development committees.

2016 Multi-Region Leadership Conference

The Central Region Multi-Region Leadership Conference (MRLC) was held in chilly downtown Chicago at the Fairmont - Millennium Park on January 15-16 this year. This annual conference is comprised of the Workshop for Section and Branch Leaders (WSBL), the Younger Member Council (CRYMC), and the Workshop for Student Chapter Leaders (WSCL) all running concurrently. Alison Graves (Director of Professional

Development) and John Weiland (Director of Administration) represented the St. Louis Section at the WSBL and Britt Marron

(YMG Chair), Brandi Jones, and Mike McFadden represented the St. Louis Younger Members Group. Other St. Louis

“CRYMC 2016 was a great way to glimpse into ASCE and understand how it really works. As a member, you don’t always see what’s behind the scenes. I had a great time networking with people, and seeing how they use their civil engineering knowledge and services to do something much bigger than just design a road or building, or provide water resources. I’m really excited about the Dream Big production. Hopefully, it gets more people looking outside of the box with civil engineering.”

– YM Brandi Jones

attendees included Elise Ibendahl and Gene Rovak (Region 7 Governors) and Marsia Geldert-Murphy (Leader Training Committee).

We attended sessions about ASCE, leadership, and how best to serve our local chapters. We focused on emotional intelligence, communication styles, generational differences in the workplace, and professional ethics, to name a few. We also got to know Norma Jean Mattei, the ASCE Society President-Elect, and how her road to leadership started with a tap on the shoulder. Her call to action to encourage the next generation of ASCE leadership to grow and step up into new roles was very inspiring. On Friday night, we attended the Illinois Section 100 Year Anniversary and CRYMC Awards Reception on the 99th floor of the Willis Tower. The event included access to the

Skydeck and The Ledge glass box overlooking the city. Unfortunately, a cloudy night made it impossible to see anything! Regardless, we had a great time celebrating!

During the conference, YM Brandi Jones won a \$500 grant from the ASCE Foundation. They were hosting a survey to determine their mascot in the conference foyer. She completed the survey, was entered in a drawing, and her name was selected! The grant money will be used for a student & professional networking event that the YMG is hosting this spring.

“It was great to see how ASCE’s various areas of work all play together. From providing resources for developing young engineers to educating the public and our elected officials, ASCE is truly a service organization committed to much more than the advancement of profession.” – YM Mike McFadden



Elise Ibendahl, Alison Graves & John Weiland on The Ledge

ASCE Society Election

ELIGIBLE VOTERS: Members at the grade of Associate, Member, Fellow or Dist.M.ASCE who are current on their membership dues as of March 15th are eligible to participate in the election. Institute only members are not eligible to vote. If a member pays dues or upgrades their membership after the March 15th deadline, they may not participate in this year's election. All transactions must be completed by close of business on March 15th.

EMAIL ADDRESS: Members should be sure they have a valid email address on file by March 15th in order to receive their voting credentials electronically.

VOTER CREDENTIALS: Election credentials will be sent to eligible voters by email on May 1, 2016. Often times the email message will go to the member's spam folder, so please set filters to allow ASCE email.

For members who do not have an email address, they will receive a letter from the election vendor with their voting credentials and instructions how to access the electronic ballot. Members who have not received voting credentials by May 2nd may contact ASCE Customer Service at 800/548-2723.

Eligible members who prefer a paper ballot should contact me by May 1st.

ELECTION DATES: The election will open at 12:59am Central time on May 1, 2016 and remain open until 5:00pm Central time on June 1, 2016.

ELECTION RESULTS: The election results will be released the afternoon of June 3, 2016.

ASCE Younger Members

March YMG Meeting:

Tuesday, March 15, 2016

Humphrey's Restaurant and Tavern

3700 Laclede Ave. 63108

6 pm to 8pm

<http://www.humphreysstl.com/location/>

- TRIVIA Night Recap
- Meet a Professional Day April 13th.

Students interested in meeting and networking with project management professionals in general civil engineering. It will be on the SLU campus with more details to follow.

- E-Week Recap
- Rebuilding Together is on April 30st, 2016.

Networking Events

Geo-Institute of ASCE – St. Louis Chapter

Presents a webinar titled

Geotechnical Investigations in Karst

Michael J. Byle, P.E., D.GE, F.ASCE

DATE AND TIME: Friday, March 11, 2016
Doors open at 10:00AM for registration
Live webinar from 10:30AM to 12:00PM
Attendees will earn 1.5 PDH
Pizza and soda/water will be provided toward the end of the program

LOCATION: Geotechnology
11816 Lackland Road, Suite 150
Saint Louis, Missouri 63146

COST: \$10.00

RSVP: Please register at the event site at the following link or by emailing pmk@shanwil.com.

<http://events.constantcontact.com/register/event?llr=yonzmehab&oeidk=a07ec6xj5vwa5b69b90>

THE ASCE ST. LOUIS SECTION AND EWRI PRESENT
2016 Environmental & Water Resources Institute Spring Seminar

WATER, WATER, EVERYWHERE

Join us for an informative ASCE/EWRI-sponsored seminar addressing current and emerging stormwater and wastewater topics in our region. Presentations will include flood risk and mitigation, updates on Missouri stormwater regulations, Mississippi River monitoring initiatives, new effluent limitation guidelines for the power industry, and more.

Seminar will be held at:

The Engineer's Club
4359 Lindell Blvd. – St. Louis Missouri, MO 63108
Thursday, March 31, 2016

Registration 7:30 AM to 8:30 AM
Program 8:30 AM to 3:30 PM
6 PDHs provided
Continental Breakfast and Lunch included

Cost:

\$50 for Members
\$70 for Non-members
\$25 for Students

Sponsorships available for \$150

Online Registration and Sponsorship Commitment available at the link below:

[Register Here](#)

Questions?

Phillip Blonn
ASCE/EWRI Spring Seminar Committee Chair
314-335-3049

Phillip.Blonn@ch2m.com

2016



**STRUCTURAL
ENGINEERING
INSTITUTE**

St. Louis Chapter

NEW BJC HOSPITAL TOUR

Wash U/BJC Campus Renewal

If you've driven down Kingshighway or Forest Park Parkway near the BJC campus you may have seen some major changes as the Campus Renewal Project takes shape! This tour will highlight the new, still under construction, Barnes-Jewish Hospital north campus and the St. Louis Children's Hospital expansion. Want more information about the projects? Check out this site packed full of interesting facts and information: <http://www.bjcconstruction.org/>

When: Friday March 18, 2016 @ 10:00 AM (must be on time)

Where: We will meet at the reflecting pool/fountain in the Ellen Clark Hope Plaza outside the Wash. U. Institute of Health (WUIOH) (more info on [Eventbrite](#)). From there we will go inside to the project manager offices (PMO) to gain a brief overview of the project. Following this we will gear up and head out to the site! Promptness matters; please be on time ! Further information about parking and directions on our [Eventbrite event page](#).

You are **REQUIRED** to have the following Personal Protective Equipment (PPE) to go onsite (**must provide own gear**):

- **Hard hat**
- **Hard toed shoes**
- **Gloves**
- **Eye protection**
- **High visibility vest**

Individuals not having proper gear will not be allowed on the site.

Cost: Free!

GET YOUR TICKETS NOW! This tour is limited to 20 people, first come first serve! We hope to extend our event into a lunch somewhere in the Central West End. Interested in joining us? Look for a question about this at the bottom of your ticket registration.

If you have any questions about the PPE or tour, please direct questions to Stephanie Spann (sspann@davidmason.com)

Tickets available @ <http://stl-bjc-tour.eventbrite.com>



St. Louis Chapter

SEAKM/SEI Continuing Education

Seminar (3/31/16)

California High Speed Rail



STRUCTURAL
ENGINEERING
INSTITUTE

St. Louis Chapter

Speaker: Michael J. Cronin, PE, SE, Jacobs Engineering

The presentation will introduce Construction Package 2-3 of the California High Speed Rail Project. CP 2-3 is part of the larger Initial Operating Section (IOS) of the California High-Speed Rail. The IOS stretches 300 miles from Merced in the Central Valley south to San Fernando Valley in Southern California. CP 2-3 is located within the counties of Fresno, Tulare, and Kings and the cities of Hanford, Corcoran, and Allensworth, bounded by East American Avenue in Fresno to the north and approximately one mile north of the Tulare-Kern County line to the south. It will extend approximately 65 miles and will include at-grade and aerial structures. The package includes six viaducts, six bridges, one undercrossing and 30 overhead structures.

Michael J. Cronin has 29 years of experience in bridge design, inspection and rating. He holds a BS and a MS in Civil Engineering from the University of Illinois. Mr. Cronin works for Jacobs in St. Louis, serving as structural design lead for bridge projects. He is licensed in several states including California.

When:	Thursday March 31, 2016	
Time:	12:00 p.m. - 1:00 p.m.	
Where:	Saint Louis University, McDonnell Douglas Hall Room 1076 3450 Lindell Blvd.	Webinar Option
Cost:	SEAKM/SEI members \$15 Non members \$20 SLU Students- Free Webinar \$50 (per connection)	
RSVP:	Sign up online at https://seakm-hsr.eventbrite.com	
Value:	0.1 Continuing Education Unit (1.0 PDH)	

Sponsored by:



**SAINT LOUIS
UNIVERSITY.**



GEO-
INSTITUTE



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

Case Histories Seminar with Dr. Jean-Louis Briaud and Student Projects

DATE AND TIME: April 28, 2016 5:00 PM to 8:30PM
5:00 pm Registration and social hour with cash bar
5:30 pm Buffet dinner
6:00 pm Student posters presented
6:30 pm Program begins
8:30 pm Closure

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

COST: \$40.00 ASCE Members; \$50.00 Non-ASCE Members; \$20.00 Full Time Students. Advanced payment is appreciated. Credit card payments and registrations with check or cash payment can be made at the link below.

Full meal will be provided and two and a half (2.5) PDHs will be awarded.

ASCE is charged for all reserved meals. If you've signed up and can't make it, please cancel by 04/22/2016 or we will have to charge you for the meal.

RSVP: Please RSVP by 04/22/2016 at:

<http://events.constantcontact.com/register/event?llr=yonzmehab&oeidk=a07ec2xbozs0aaea35a>

or

Dennis Boll, dboll@geotechnology.com

PROGRAM: Dr. Jean-Louis Briaud, the Geo-Institute's Cross USA Lecturer for 2015-2016, will provide the lecture, "Behavior of Two Mats under Heavy Load – Washington Monument and San Jacinto Monument." The lecture investigates the geotechnical behavior of two large mat foundations over several decades of time. The first case history is the foundation of the Washington Monument in Washington DC completed in 1885 and the second case history is the foundation of the San Jacinto Monument in Houston, Texas completed in 1936. Both mats are about 38 m by 38 m and settlement records are available. Calculations performed with respect to depth of influence, stress increase with depth, consolidation settlement, and ultimate bearing capacity are presented. Additional considerations include the influence of soil heterogeneity and underpinning. Lessons learned from the behavior of these two mats are drawn and recommendations are made for the geotechnical aspect of mat foundations.

Dr. Jean-Louis Briaud is a professor and holder of the Spencer J. Buchanan Chair in the Zachry Department of Civil Engineering at Texas A&M University.



ASCE St. Louis Younger Member
Group Presents:

MEET A PROFESSIONAL LUNCHEON

Wednesday, April 13th, 11:30 am—1:00 pm
at Il Monastero at Saint Louis University

3050 Olive Street, St. Louis MO 63103

ASCE Student Members:

- Are you going to be looking for a **job** after graduation?
- Would you like to talk to a **professional civil engineer** about what they do for a living?

Join us for lunch and be paired with a professional in your field of civil engineering to discuss their work, company, and any other questions you may have about the next step in your career.

RSVP by **Wed. April 6th** to Alison.Graves@jacobs.com. Include your name and area of emphasis (i.e. Structural, Geotech, Environmental, etc.)

Lunch sponsored by the ASCE St. Louis Section YMG
and grants from ASCE Region 7 and the ASCE Foundation

We are seeking Professional Civil Engineers for this luncheon as well. Email Alison.graves@jacobs.com if you are available to participate.



SIUE ASCE Golf Outing

FRIDAY, APRIL 15TH

THE ORCHARDS GOLF CLUB, BELLEVILLE, ILL

REGISTRATION: 11:30 p.m. **TEE-OFF:** 12 p.m. **COST:** \$55/PERSON - \$40/STUDENT - \$8/MEAL ONLY
18 HOLES OF GOLF, CART INCLUDED, WITH DINNER, AWARDS, AND MEET-AND-GREET TO FOLLOW!
MEAL WILL BE GRILLED AND FRIED CHICKEN, SALAD, POTATOES, AND VEGETABLES. WATER AND SODA WILL BE INCLUDED.

AWARDS

LOWEST SCORE – LONGEST DRIVE – LONGEST PUTT – CLOSEST TO THE PIN – MARSHMALLOW DRIVE

ADDITIONAL EVENTS AVAILABLE TO ENTER DURING REGISTRATION

FOR MEAL ONLY, SEND RSVP TO DMOLOHO@SIUE.EDU BY THE REGISTRATION DATE.

REGISTRATION DUE BY 4/13/2016. GOLF ATTIRE IS REQUIRED. NO STEEL SPIKES ARE ALLOWED ON THE COURSE.

REGISTRATION:

PLEASE COMPLETE THE FOLLOWING AND SEND WITH CHECK
(PAYABLE TO SIUE ASCE*) TO:

ATTN: ASCE STUDENT CHAPTER
CAMPUS Box 1800, SIUE
EDWARDSVILLE, IL 62026-1800

CAPTAIN NAME: _____

CAPTAIN EMAIL: _____

CAPTAIN PHONE: _____

MEMBER 2: _____

MEMBER 3: _____

MEMBER 4: _____

SPONSORSHIPS: (SEE INCLUDED APPLICATION)

PLATINUM: LOGO AND NAME ON HOLE,
REGISTRATION TABLE, ATTENDANCE PRIZE + ONE (1) 4
PLAYER TEAM (*BEST VALUE!*) - **\$400**

GOLD: LOGO AND NAME ON HOLE, REGISTRATION
TABLE, AND ATTENDANCE PRIZE- **\$200**

SILVER: LOGO AND NAME ON REGISTRATION TABLE
AND ATTENDANCE PRIZE - **\$100**

STUDENT: PAY FOR A STUDENT TO REPRESENT YOUR
COMPANY ON THE COURSE - **\$55**

*IF PROVIDING ANY TYPE OF SPONSORSHIP MAKE CHECK PAYABLE
TO **SIUE FOUNDATION** FOR TAX RECEIPT.

QUESTIONS? CONTACT DAVID MOLOHON AT DMOLOHO@SIUE.EDU OR (217) 741-8960



MISSOURI CONCRETE CONFERENCE

hosted by Missouri University of Science and Technology

Join us and our distinguished group of regionally and nationally known speakers at this year's [Missouri Concrete Conference](#), May 3-4, 2016, in Rolla, Missouri.

During this affordable two-day conference, you could earn approximately 10 Professional Development Hours (PDHs).

Conference Topics

MATERIALS:

- Benefits of Macrofibers
- Steel Fibers in Concrete
- Impact of Air Pollution Control on Fly Ash

CONSTRUCTION:

- Proper Curing Techniques & Materials
- Soil Stabilization & Full Depth Reclamation
- Kansas City International Airport Runway Case History
- New ACI Pavement Construction Guide
- Lithium Silicate Curing Compound

QUALITY CONTROL & INSPECTION:

- Floor Slabs & Toppings: Design & QC
- Concrete Tests: Choices & Interpretation
- Practical Applications of Resistivity Testing
- Super Air Meter

READY MIX OPERATIONS:

- Factors Affecting Strength

MAINTENANCE & REPAIR:

- Structural Cracks: Identification, Prevention, & Repair
- Street Deterioration Repairs
- City/County: Concrete Pavement Management Programs
- Pavement Joint Sealing/Resealing

DESIGN & SPECIFICATION:

- *Pavement Joint Detailing*
- *History of MoDOT Concrete Girders*

For more information, go online to <http://concrete.mst.edu>.

...See you at the Conference!

SAVE THE DATE

FRIDAY MAY 13, 2016



Bi-State Fabricators Association Presents:



Welded Connections: The Good, The Bad and The Ugly

Presented by Duane K. Miller, P.E., Sc.D

What makes for a good welded connection? Or, one that is bad, or ugly? In this presentation, 12 principles of welded connection design will be presented that answer these questions. The principle will be identified, explained and illustrated with examples of good and bad. The seminar will conclude with a review of two notable failures, and identifying how the application of the 12 principles to these situations could have avoided these problems. Engineers, Designers, Detailers, Fabricators, Erectors and Inspectors should all benefit from this program.

Please join us for our annual FREE spring breakfast program featuring Duane Miller, Duane is the manager of Engineering Services with The Lincoln Electric Company. Duane is a recognized authority on the design and performance of welding connections.

Where: Greenbriar Hills Country Club ([no jeans allowed](#))

12665 Big Bend Rd, Kirkwood, MO 63122

Doors will open at 7:00 am, the breakfast will begin at 7:30 am and the [90 minute](#) presentation will begin at 7:45 am. This program will be open to the first 150 to register and will provide 1.5 PDH

YOU MAY REGISTER BEGINNING MARCH 28, 2016 by emailing; cathy.bi-state@centurylink.net

Engineering Encounters Bridge Design Contest



ENGINEERING ENCOUNTERS BRIDGE DESIGN CONTEST

NATIONAL AND LOCAL CONTEST INVITATION

Hosted by the American Society of Civil Engineers—St. Louis Chapter

Who? Middle and high school aged students in the Metro St. Louis Region (Illinois included)

What? Bridge Design Competition using the Bridge Designer software to compete locally and nationally among peers

When? Anytime now through March 25, 2016 (Other dates apply to national contest)

Prizes? Yes! \$\$ Prizes for first and second ranked teams placing in the local contest (other prizes available nationally)

Contest Notable Dates:

- National/Local Contest Registration Begins: **January 11, 2016**
- National Qualifying Round: January 12-May 26, 2016 (Local Contest begins January 12, 2016, you may join at any time until local contest concludes)
- **Local Contest Completion Date: March 25, 2016** (Local contest consists of one round!)
- Prizes for Local Contest awarded at ASCE Luncheon on **April 12, 2016** at the **Engineer's Club of St. Louis** (alternate May date available if necessary)
- National Final Round: July 16, 2016; Location to be announced

Contest How-Tos:

- [Download](#) and install the Bridge Designer 2016 software (free)
- Use the software to design and test a virtual bridge
- [Register](#) your team
- As part of your registration, include the St. Louis Local Code: SLBC
- Log in and submit as many designs as you like!
- View your rank online at the [Local Contest Score Board](#) (updated every 24 hours)

Prizes

- See the [National Site](#) for prize details at national level! By entering the local contest you are entered nationally by default (you are not required to compete nationally to compete locally).
- The St. Louis Local Contest has cash prizes for 1st and 2nd place!
 - ◇ \$300 for 1st place team (total prize, \$300 for individual or \$150 for 2 member team)
 - ◇ \$200 for 2nd place team (total prize, \$200 for individual or \$100 for 2 member team)

Other Information:

The bridge design competition allows for a truly open ended design, which allows students to participate both nationally and locally simultaneously; therefore no criteria is specified. Additionally, teams are required to be in the Metropolitan St. Louis area and must be middle or high school students (at ASCE St. Louis discretion). Winners (or their teachers or parents) are **required** to contact coordinator ([Stephanie Spann](#)) in order to claim prizes no later than March 31, 2016. Students do not have to compete and win nationally to win locally. **Students may register and submit (as often as they like) at any time during the local contest dates.**

Questions?

Need help with the design? Unsure about contest rules? Just need more info? Please feel free to contact the local contest coordinator, Stephanie Spann (sspann@davidmason.com) for questions or concerns.

Order of the Engineer



"Upholding Devotion to the Standards and Dignity of the Engineering Profession"

Hey Engineers, Let's Celebrate!

Who?
Graduating Seniors and Professionals

ORDER OF THE ENGINEER

March 29, 2016

7-9pm at Il Monastero

Address:

Saint Louis University
3050 Olive St.
St. Louis, MO 63103

RSVP to asce@slu.edu by March 7th

Why?
The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

- One-time thing
- \$15 charge for Ceremony and ring
- No dues
- No extra meetings

Hosted by SLU and SIUE ASCE Chapters

GET YOUR RING SIZED!

Dates TBA upon rsvp to the event
Or at the Facebook event page at
[www.facebook.com/
events/503677883146291/](https://www.facebook.com/events/503677883146291/)

Saint Louis University
3450 Lindell Boulevard
St. Louis, MO 63103

Phone: (618)560-2725
Email: abuerck@slu.edu



Employment Opportunities

Cochran Opportunity - Civil Design/Project Engineer

Cochran has an immediate opening for a Civil Design/Project Engineer in our Lake of the Ozarks, Missouri office.

Reference # 16ASCEMOLO

The job responsibilities for this position include: perform a broad range of planning and design tasks for site development, stormwater, drinking water and wastewater, transportation and general civil infrastructure projects; development of plans, specifications, design computations, reports and construction documents. The position will be technically involved in detailed design work, coordination of civil and non-civil designs on multi-discipline projects, coordination with utilities and public agencies, as well as resolution of design issues that may include performing field investigations.

The ideal candidate would have 5+ years of design experience related to site development, stormwater management, drinking water, wastewater, transportation and general civil engineering. A Bachelors degree in Civil Engineering and EI/EIT Certification is required; PE licensure is preferred

For more information for this position, visit www.cochraneng.com –careers - Please forward your cover letter and resume via email with reference # to cochrancareers@cochraneng.com - No phone calls please.

To submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 15th of the month prior to publication. Items may be sent via e-mail to Joe Sturgeon at wsturgeon@hntb.com. MS Word files are the preferred file type. PDF files are also acceptable but may not look as sharp when inserted into the newsletter and hyperlinks might not carry through to the final version. For multiple page announcements, please consider providing a single-page flyer, concisely worded, with links provided to ancillary pages such as registration forms or other attachments. Also, please clearly include in the email subject line a concise title for the announcement and desired month(s) of publication.

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

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

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

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



ASCE – St. Louis Section
c/o The Engineers' Club of St. Louis
4359 Lindell Blvd. St. Louis, MO 63108