

In This Issue

President’s Message 2
 Otto Nuttli Award 3
 ASCE Networking Events 4
 Networking Events..... 7
 SIUE Mentor Program 9
 University of Missouri
 S&T’s Engineering
 Education Center in St.
 Louis 10
 Employment
 Opportunities 11

Upcoming ASCE Events

- June 9**
ASCE/NSBE Joint Society Luncheon
- July 11**
Melvin Price Locks & Dam Tour
- August 7**
Annual ASCE/ASLA Golf Tournament



Joint Luncheon Meeting

Sponsored by the St. Louis Sections of
ASCE and NSBE

Date: June 9th, 2015

Doors Open: 11:30 a.m.

Lunch Served: 12:00 p.m.

Location: Engineers' Club of St. Louis
4359 Lindell Blvd.

RSVP: ctoenj@alberici.com or 314-753-5875

Online registration: <http://goo.gl/HoiqTL>

Speaker: Anna Leavey, AIA, CCM, LEED AP

Anna Leavey is the Program Manager for CityArchRiver 2015 Foundation. Prior to joining CityArchRiver Leavey was Director of Construction for BJC HealthCare. She joined BJC in 2006 and transitioned to the CityArchRiver 2015 Foundation at the end of 2013.

Ms. Leavey holds a Master’s Degree in Construction Management from Washington University in St. Louis, a Masters of Architecture from the same institution and a Bachelor of Arts from Smith College. In addition she studied architecture at University College London and participated in a summer program at the Harvard Graduate School of Design.

She is a member of the Construction Management Association of America, the American Institute of Architects, holds a Missouri Real Estate Salesperson-Broker license, and is a Master Gardener.

Topic: CityArchRiver 2015 Foundation

Designed by world-renowned landscape architecture firm Michael Van Valkenburgh Associates, CityArchRiver 2015 connects the Gateway Arch grounds with the East and West riverfronts and the region. Through the creation of new spaces for events and public education, expanded museum space, additional park acreage and bicycle trails, children’s play areas, performance venues and a lively, invigorated riverfront, locals and tourists alike will find new opportunities to learn, linger and enjoy one of the world’s most recognized icons.

The design starts with a new, dramatic Park Over-the-Highway that will, for the first time, allow visitors to walk from the Old Courthouse to the Arch grounds to the riverfront on one continuous greenway, without a curb or stair step in their way. With your support, the CityArchRiver 2015 project will have a lasting impact on the economic, social, environmental, recreational and educational fabric of the entire bi-state metropolitan region.



Cost for ASCE and NSBE members is \$15, Student members only \$5
One PDH will be offered.

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

Officers & Directors 2014 - 2015

President

Shawna Erter
SCI Engineering Inc.
130 Point West Blvd.
St. Louis, MO 63301
Phone: 636-949-8200
Fax: 636-949-8269
E-mail:
serter@sciengineering.com

President-Elect

Michael Buechter
Metropolitan St. Louis Sewer
District
2350 Market Street
St. Louis, Missouri 63105
Phone: 314-768-2772
Fax: 314-768-6341
E-mail: mtbuec@stlmsd.com

Vice President

Matt Harper
219 Mockingbird Lane
Waterloo, IL 62298
618-939-0154
Email: mharper@wrs-rc.com

Secretary

Lyle Simonton
Subsurface Constructors, Inc.
101 Angelica St.
St. Louis, MO 63147
Phone: 314-421-2460 x101
Fax: 314-421-2479
E-mail:
lsimonton@subsurfaceconstructo
rs.com

Treasurer

Chad Schrand
Engineering Systems
Incorporated
923 E. Terra Lane
O'Fallon, MO 63366
Phone: 636-240-6095
Fax: 636-281-9052
E-mail: cmschrand@esi-mo.com

Director of Administration

Kyle Tabor

Director of Technical Development

Jordan Pettibone

Director of Professional Development

Brent Vaughn

Past President

Marc Bacchetti



President's Message

Shawna Erter

I am sure everyone has a personal opinion on the "Raise the Bar" campaign that we have been inundated with for years from ASCE. I have sat through the presentation from National at least 10 times that I can recall and read numerous articles on the subject. Each time, I gain a new nugget of information and nod along agreeing with the issue and then discuss with colleagues before going to the next presentation. After I leave the conference I think about it but do little to change or push the issue any further.

The reasoning behind this campaign is that the number of credits required for a bachelor's in engineering has been declining, at a time when the demands of the profession have become increasingly complex. Young engineers don't have the depth of knowledge that a company needs. Today's bachelor's degrees require 120 credit hours, a steady decline from the 150 expected from graduates not long ago. Meanwhile, technology has been advancing at a supersonic pace. This is happening while requirements for other professions such as medicine, law and accounting have steadily increased to meet today's demands.

One fear is that this campaign will decrease the number of students who pursue engineering. Other learned professions that have raised their bar have not experienced a decrease in the number of students pursuing that career. Raising the bar should make the engineering profession more attractive while at the same time attracting better qualified students—as it has in other professions.

For good or bad, the train has left the station. The National Council of Examiners for Engineering and Surveying, which helps state licensing boards carry out their duties, has changed its model law to require a master's or an equivalent 30 credits – at least half in engineering and half in other subjects including business, communications, contract law and quality control – with a target effective date of 2020. Nonetheless, states would need to pass the law for it to take effect.

Now that I am in a position to hire new engineers, I continually see resumes and interview both students who are completing their bachelors and those completing a masters. It is becoming very clear to me that this is an issue that is already upon us and is affecting many companies in the hiring process. It is becoming increasingly frustrating to see the lack of education a student receives in a specific engineering discipline with only 120 credit hours.

To protect the public's future health and safety, the minimum educational standards for engineers must encompass new knowledge, new technologies, new regulations, and new social issues which cannot, in my opinion, be completed in 120 credit hours. The quality of the professional engineers in the U.S., not the sheer numbers, is a key factor that will influence the nation's competitiveness in the future. The U.S. faces ever-expanding challenges in international competition and professional engineers must provide more value. Competing with high-quality engineering services from other countries (such as China and India) on a cost basis is a losing proposition.

Sincerely,

Shawna Erter, PE

Otto Nuttli Award

The ASCE / SEI St. Louis Section awarded the Otto Nuttli Award for Seismic Hazard Mitigation to Steve Besemer of the Missouri State Emergency Management Agency. The Award was presented to Steve at the March 24 SEMA conference in Jefferson City. Steve joined SEMA in 2002 and has been the Earthquake Program Manager since 2005. Steve has been heavily involved in both seismic mitigation and earthquake disaster recovery planning, and has made a deep personal commitment to achieving these ends. Examples of his involvement include being the SEMA representative for the SAVE coalition, the Central United States Earthquake Consortium, and the Missouri Seismic Safety Commission. Steve has participated in multi-state seismic recovery exercises, and has attended seismic evaluation training classes in California. He was the driving force behind SEMA obtaining FEMA grants for the seismic hazard mitigation of non-structural components in schools. Steve has consulted with other mid-west states on developing their own post-disaster building evaluation programs modeled after Missouri's. All of these activities involved committing large blocks of personal time on weekends and at night, and far exceeded his 40 hour work week at SEMA.



From left to right: Steve Besemer (SEMA), Ted Pruess (ASCE/SEI), and Ron Walker (SEMA Director).

ASCE Networking Events

The St. Louis Chapter of the Structural Engineering Institute would like to invite you to tour the National Great Rivers Museum and Melvin Price Locks & Dam



On **Saturday, July 11, 2015 at 11:00 a.m.**, SEI – St. Louis will host a tour of the **National Great Rivers Museum & the Melvin Price Locks & Dam**, operated by the U.S. Army Corp of Engineers for ASCE members and their families.

The Locks system of the Mississippi River has been instrumental in the safe navigation of the world's largest navigable waterway for over half a century. Melvin Price Locks & Dam, the newest of these massive structures, located near the confluence of the Mississippi and Missouri Rivers, is an incredible example of the power of engineering in action.

Admission to the museum is free (though, donations to the museum are accepted and appreciated; if you make a donation and would like to pay by check please make the check payable to: Meeting of the Great Rivers Foundation).

Please RSVP [HERE](#)

For tour-specific questions or information, please contact Asher Leff, SEI Chapter Secretary, at j.asher.leff@gmail.com.

For directions or more information please contact the museum at 1-877-462-6979 or visit their web site at: www.mvs.usace.army.mil/Rivers.

After the tour, we recommend visiting one of the many restaurants in the City of Alton, IL, as well as the many other parks and attractions in the area, including:

- The Audubon Center at Riverlands, 301 Riverlands Way, West Alton, MO
- The Elijah P. Lovejoy Monument, Monument & 5th Streets, Alton, IL
- Lewis & Clark Confluence Tower, 435 Confluence Tower Drive Hartford, IL (Paid Tours)
- Lincoln-Douglas Square

For more information on other historic and scenic attractions, go to VisitAlton.com.

2015 Annual ASCE/ASLA Golf Tournament

Join us on Friday, August 7, 2015 for the Annual ASCE/ASLA Golf Tournament. We will be spending the afternoon at a new course this year, Forest Park Golf Course. Make plans to spend a great afternoon golfing, eating, drinking and raising money for the ASCE scholarship fund and watch your email for more information!



**STRUCTURAL
ENGINEERING
INSTITUTE**

St. Louis Chapter

SEI DAY 2015

Structural Engineering
Conference

Friday, October 16, 2015

Masonry Institute of St. Louis

St. Louis, Missouri

About

The St. Louis Chapter of the Structural Engineering Institute will hold the 4th annual SEI Day on Friday, October 16, 2015. This full day conference will include a series of seminars and an exhibit hall focused on the practice of structural engineering.

Call For Abstracts

The conference planning committee is seeking speakers to provide 30 to 60 minute presentations on topics related to structural engineering. We will consider any topic related to structural engineering, but we are trying to get several presentations on foundation design, foundation rehabilitation, the inter-relation between geotechnical and structural engineering, etc. Interested parties are encouraged to submit a brief abstract to Randy Bernhardt at rpbernhardt@esi-mo.com by July 1, 2015. Abstracts should be a maximum of 250 words. Notification will be provided to the selected presenters by August 1, 2015.

Sponsors & Exhibitors

A limited number of sponsors & spots in the exhibit area are available. If you are interested in this opportunity to influence the St. Louis structural engineering community, please contact Marc Bacchetti at marc190@att.net.



GEO-
INSTITUTE

GEO CONFLUENCE

GEOTECHNICAL &
GEO-ENVIRONMENTAL
CONFERENCE

Call for Abstracts! **NOVEMBER 6, 2015**

*St. Charles Convention Center
St. Charles, Missouri*

The St. Louis Chapter of the Geo-Institute is now accepting abstracts for the fifth annual GeoConfluence, a full day conference focusing on geotechnical engineering and geo-environmental topics. This annual conference will include technical topics and case histories from the geotechnical engineering and geo-environmental industry. This one-day conference is open to all and is scheduled for Friday, November 6, 2015. The conference planning committee is seeking four to six speakers to provide a 30-60 minute presentation focused on geotechnical engineering or geo-environmental topics. All persons are encouraged to submit an abstract to Nicholas Roth at nicholas.roth@psiusa.com by July 20, 2015. Abstracts should be limited to 250 words. Once the planning committee has reviewed the abstracts, notification will be provided to the selected presenters by August 7, 2015. The submitted abstracts and presentation slides will be assembled and included in the conference publication.

Networking Events



Are you interested in learning more about transportation, aviation, engineering, science, or technology? The St. Louis Summer Transportation Institute may be for you!

As part of the Institute, you will:

- Learn about land, air and water transportation and engineering in a fun and inspiring environment
- Attend small airplane flying sessions and participate in hands-on activities to simulate traffic, design a bus route, and more.
- Meet knowledgeable professors, successful engineers and undergraduate students who are passionate about transportation, aviation and engineering.
- Visit transportation facilities and learn about careers in transportation.

When: July 6-10 or July 13-17 from 9:00 am – 4:30 pm each day

Cost: **FREE** (If selected, scholarship will cover lunch, activities, materials and field trips)

Where: Saint Louis University's Parks College of Engineering, Aviation and Technology
3450 Lindell Blvd., McDonnell Douglas Hall, Saint Louis, MO 63103

Who is eligible? Students entering 9th through 12th grades in Fall 2015

Please visit parks.slu.edu/summer-transportation-institute or see the back of this flyer for application instructions.

Submit your application online by June 1 for full consideration or mail to:
Parks College of Engineering, Aviation and Technology
ATTN: Summer Transportation Institute
3450 Lindell Blvd, Rm 1033
St. Louis, MO 63103

For further information, visit parks.slu.edu/summer-transportation-institute, contact Dr. Jalil Kianfar at (314) 977-8271 or by e-mail at kianfarj@slu.edu.

SAINT LOUIS UNIVERSITY | **PARKS COLLEGE**
of ENGINEERING, AVIATION AND TECHNOLOGY

2015 St. Louis Summer Transportation Institute Application Form

July 6th -10th, 2015 OR July 13th -17th 2015

The fillable version of this form is available online at parks.slu.edu/summer-transportation-institute

STUDENT INFORMATION (Please make sure handwriting is legible, or type in the PDF form)			
Last Name:	First Name:	M.I.	
Address: (Street Name, Apt. #, City, State, Zip code)			Birth Date: (Mo./Day/Yr.)
Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female	Race (Optional):	How did you hear about St. Louis Summer Transportation Institute: <input type="checkbox"/> Friend <input type="checkbox"/> Parent <input type="checkbox"/> Teacher/School <input type="checkbox"/> Other (please list):	
Grade in Fall 2015: <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12	Name of School (Fall 2015):		Grade Point Average (4.0 scale):
I have completed algebra, or will be qualified for enrollment in algebra, for the coming school term. <input type="checkbox"/> Yes <input type="checkbox"/> No		T-Shirt Size (adult sizes): <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> XL <input type="checkbox"/> 2XL other	
<p>The institute is offered over two, one-week sessions. The content of both sessions is similar. Please rank your preference:</p> <input type="checkbox"/> My first preference is week of July 6th -10th, 2015 and my second preference is week of July 13th -17th 2015 <input type="checkbox"/> My first preference is week of July 13th -17th 2015 and my second preference is week of July 6th -10th, 2015 <input type="checkbox"/> I do not have a preference. We will make every attempt to accommodate your preference but we cannot guarantee that you will be admitted to your first session of choice.			
Please list your math and science classes: (most recent)			
Math:		Science:	
Accommodations (Optional): Please identify any accommodations that you might need to support your participation (e.g. Braille, Interpreting Service, accessible transportation, additional personal support, and special diet)			
PARENT/GUARDIAN INFORMATION			
Parent/Guardian Name:		Parent/Guardian Address (if different): (Street Name, Apt. #, City, State, Zip code)	
Home Phone:	Work Phone:	Cell Phone:	Parent Email Address:
I certify that the information I have provided on this application form is accurate.			
Student Signature:		Parent/Guardian Signature:	Date:
To apply for St. Louis Summer Transportation Institute, you must submit:			
<ol style="list-style-type: none"> 1. A completed application form. 2. A typed essay at least 350 words: Describe your career interests and how the St. Louis Summer Transportation Institute can assist you in reaching your goals. 3. A letter of recommendation. Letter must be from someone familiar with your academic performance, character, career aspirations, or community service and include how long the writer has known you. May include, but not limited to a guidance counselor, teacher, principal, coach, church leader, or employer. The letter may reflect your scholarly activities, conduct, attitude, ability to work as a member of a team, and so on. 			
APPLICATION DEADLINE: June 1, 2015. Incomplete applications will not be processed.			
<p>Please submit application, essay and letter of recommendation by mail to: Parks College of Engineering, Aviation and Technology ATTN: Summer Transportation Inst. 3450 Lindell Blvd, Rm 1033 St. Louis, MO 63103</p> <p>Or submit your application, and essay online at parks.slu.edu/summer-transportation-institute and submit letter of recommendation by mail. For further information, visit the website, contact Dr. Jalil Kianfar at (314) 977-8271 or by e-mail at kianfarj@slu.edu</p>			

SIUE Mentor Program

Mentor Fact Sheet

The Southern Illinois University Edwardsville Mentor Program provides an opportunity for students and professionals to connect in positive one-on-one mentoring relationships. Through the program, professionals can enhance the quality of a current student's academic experience by interacting, exchanging ideas, and sharing their career experiences and knowledge with future SIUE graduates.

Who can Become a Mentor?

We are looking for professionals who have a minimum of a Bachelor's Degree and have at least 3 years of professional experience.

How Much Time Is Required to Be a Mentor?

We know how busy professionals are, and we do not want your participation in this program to hinder your day-to-day routine or conflict with your other commitments. Whether it be a one-time meeting or an ongoing partnership – we can use your expertise in helping foster student's professional development. The amount of time you commit is up to you and your mentee. Therefore, we have made this program as adaptable and user-friendly as possible.

What If I Live Outside of the Edwardsville Area?

Keep in mind that mentors do not need to live in close proximity to SIUE or to their student in order to participate in the program - a mentoring relationship built solely on email, phone calls, Skype, etc. can be just as effective as mentoring a student in person. The basic objective of mentoring is to encourage and assist in the development and growth of a student.

What Is Involved in a Mentoring Relationship?

Each mentoring relationship will be different because of the student's development level, the student's needs, his or her career interests and a mentor's strengths and talents. A mentor can provide a wide variety of assistance to students including:

- Career advice and networking tips
- Introductions to new people, places, interests and ideas
- Encouragement in defining career goals and the development of a plan of action to reach those goals

How Can I Get Involved?

If you are interested in serving as a mentor and working with a current student, simply go to the SIUE Career Development Center website at www.siu.edu/careerdevelopmentcenter/ Click on 'mentor login' and the select 'click here to register'.

The SIUE Mentor Coordinator will contact you after you have completed your online registration.

For more information, please contact us at:



Career Development Center

0281 Student Success Center

618-650-3708

careerdevelopment@siue.edu

www.siu.edu/careerdevelopmentcenter



Engineering Education Center



"I selected Missouri S&T for
convenience, affordability,
and the quality of education."

Mirna Palavric, EMgt'12



Working professionals know the value of an education from Missouri University of Science and Technology's Engineering Education Center in St. Louis.

Education that Fits.

Promote your career and enhance your earning potential by taking classes at the EEC. Classes are taught in the evening and live-streamed over the Internet, providing the flexibility you need to earn your graduate degree or certificate while you work. Choose from more than 40 graduate certificate programs and 17 advanced degrees.

Distance Graduate Degrees include:

Aerospace Engineering (MS/PhD)
Business Administration (MBA)
Civil Engineering (MS)
Computer Engineering (MS)
Computer Science (MS)
Electrical Engineering (MS)
Engineering Management (MS)
Environmental Engineering (MS)
Explosives Engineering (MS/PhD*)

Geotechnics (ME)
Industrial/Organizational Psychology (MS)*
Information Science and Technology (MS)
Manufacturing Engineering (MS/ME)
Mechanical Engineering (MS/PhD)
Mining Engineering (ME)
Systems Engineering (MS/PhD)
Technical Communication (MS)

*Degrees pending approval.



eec.mst.edu
eec@mst.edu | 314-835-9822



Missouri University of Science and Technology
A Premier Technological Research University | Founded 1870

Employment Opportunities

EDSI Employment Opportunity - Civil Design/Project Engineer

Engineering Design Source, Inc. (EDSI) has an immediate opening for a Civil Design/Project Engineer in our Chesterfield, Missouri office.

The job responsibilities for this position include: perform a broad range of planning and design tasks for site development, stormwater 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 2+ years of design experience related to site development, stormwater management and general civil engineering. A Bachelors degree in Civil Engineering and EI/EIT Certification is required; PE licensure is a plus.

For more information and to apply for this position, visit <http://engdesignsource.net/about-us/careers/>.

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**