March Luncheon
11:30 am to 1:00 pm, Tuesday March 12, 2013

Below Grade Wall Construction Using the TRD Method
Speaker: Dr. Ed Garbin, Ph.D., P.E., Chief Engineer, Hayward Baker, Inc.

Topic
The TRD methods allows for the in-situ construction of below grade soil mix walls. Applications include excavation support and seepage cutoff. With no open trench required, the TRD process results in a homogenous, continuous wall through full vertical mixing of the soil profile with the binder material. In this presentation, the TRD method will be introduced. A case study will be presented where the TRD was used to construct a seepage cutoff wall through the existing dike surrounding Lake Okeechobee, in Florida. This project was completed for the US Army Corps of Engineers, and called for a cutoff wall constructed to as deep as 80 feet below the crest. Challenges that had to be overcome included stringent performance specifications, buried debris, boulders and organic soils.

Bio
Dr. Garbin has been the Chief Engineer of Hayward Baker’s Southern Region since early 2007, specializing in complex ground improvement projects with a particular emphasis on soft soils remediation. A licensed Professional Engineer in 4 states, he earned his undergraduate and graduate degrees in Civil Engineering from the University of South Florida, Tampa, where he occasionally teaches as an adjunct professor.

Time, Date, Location
11:30 am to 1:00 pm, March 12th, 2013, Engineers Club of St. Louis, 11:30 Registration / 12:00 Lunch. Cost: $15/person, students $5, unemployed members $5 (checks payable to ASCE)

Reservations
Call Kurt at the Engineers’ Club for reservations by noon the Friday before the event Kurt: 314-533-9333, or fax: 314-533-9336, or email: kurt.krispin@engineersclub.net.

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. 1/2 PDH is typically awarded to attendees.
President’s Message

March is one of my favorite months in the ASCE calendar because that is when the Society holds its Legislative Fly-in Program in Washington D.C. The Fly-in an intensive two-day program that provides participants with an inside look at the political process. Last year, over 160 ASCE members attended briefings on transportation legislation and natural hazards mitigation research. Participants then made visits to over 350 Congressional offices to educate and lobby elected officials and their staff on these issues. For the first time in my memory, this will be the first year that the St. Louis Section will have three members at the event. They will be our Section’s voice as they engage with our local Representatives, William “Lacy” Clay of the redrawn 1st Congressional District; Ann Wagner, newly elected to the 2nd District, and; Blaine Luetkemeyer, who represents the redrawn 3rd District.

Even if you are not attending the Legislative Fly-in, you can make your voice heard by becoming an ASCE “Key Contact”. Each Friday, Key Contacts receive the email publication “This Week in Washington”, a newsletter with the latest information on infrastructure issues facing our elected leaders in our nation’s capital. Key Contacts also receive “Key Alerts” from the Society when critical legislation is being debated. These messages enlist members’ efforts by encouraging them to contact their local representatives through the society’s “Click and Connect Advocacy” webpage. The tools on the webpage make drafting a response to your Representative or Senator easy and worry free.

If you are interested in becoming a Key Contact, you can sign up here: http://www.asce.org/keycontacts/

As to Government Relations at the State level, the Section is providing testimony in support of Missouri Senate Bill 207, the Infrastructure Strengthening and Regulatory Streamlining (ISRS) Act, legislation that will make it easier for utilities to recoup their investment in infrastructure. The Society’s recently released economic report “The Economic Impact of Current Investment Trends in Electricity Infrastructure”, a part of its “Failure to Act” series, shows that an investment in our nation’s generation, transmission, and distribution systems can improve reliability, reduce congestion, and build the foundation for economic growth. Based on current investment trends, the national electricity infrastructure gap is estimated to be $107B by 2020, or just over $11B per year. By 2020, shortfalls in grid investments are expected to account for almost 90% of the investment gap with nearly $95B in additional dollars needed to modernize the grid.

The Report also states that closing the electricity investment gap would lead to fewer brownouts and blackouts and save US businesses $126 billion, prevent the loss of 529,000 jobs and $656 billion in personal income losses for American families. While these are national numbers, the impact felt here in Missouri will be significant. Some states are taking aggressive steps to address their electric infrastructure funding shortfalls and those are the states that will get ahead. It is our opinion that with the ISRS legislation, Missouri can join the ranks of these forward thinking states and send a signal that it is serious about addressing the state’s need for investment in energy infrastructure.
Things I Think (When I’m Not Thinking About Engineering)

- I’m worried about the Cardinals this year. I’m not sure they’ve done enough to keep up with the Reds, Giants, Braves, and Dodgers.
- I finally ate at the restaurant $\pi$, and it really lived up to its reputation. Very good pizza.

Speaking of good restaurants, if you’re ever in the South Hampton neighborhood, you should try Onesto’s.

Until next month, Steve

Candidate Nominations

The Nominating Committee met on February 11, 2013 and is pleased to present the following slate of candidates for the next year:

President-Elect – Shawnna Erter
Vice-President – Mike Buechter
Secretary – Matt Harper
Treasurer – Lyle Simonton
Director of Professional Development – Brent Vaughn

Additional nominations may be made in writing, signed by 10 members, at the March luncheon. If no additional nominations are made at the March luncheon, the above nominees shall be declared elected by the President at the May meeting. Newly elected officers take office the first day of October following the Annual Meeting or as soon thereafter as may be practicable and shall hold office until their successors have been duly elected and qualified.

Stephen Randolph, President
St. Louis Section – ASCE

Call for Local Award Nominations

The St. Louis Section is seeking nominations until June 1, 2013 for the following Local Awards:

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

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

Young Engineer Award
This award recognizes professional contributions of younger members to the Society and to the Section and is presented annually to a Member of the Section who is less than 35 years of age on February 1, 2013.
**Award to Service People**

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

**Excellence in Journalism Award**

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

The awards will be presented at the St. Louis Section annual dinner in September.

These awards are presented to deserving civil engineering projects and individuals in our community and are a great way to showcase the civil engineering excellence in our Section.

Please submit nominations to Susan McCrary at smccrary@stlmsd.com or call 314-768-6306. Guidelines and forms for making nominations are available on our St. Louis Section website at [http://sections.asce.org/stlouis/](http://sections.asce.org/stlouis/) under the “Awards & Scholarships” tab or the information can be emailed or mailed to you upon request.

**Deadline for submittal is June 1, 2013.**

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**Younger Member Events**

Hello YMGers,

Ah, March. The beginning Spring. The Birds chirping in the air. Flowers blooming. And the YMG March meeting!

**March YMG Meeting:**

Tuesday March 19, 2012 6-8PM

**6 Row Brewing Company**

3690 Forest Park Ave, St. Louis, MO 63108

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

RSVP to Jordan Pettibone at jepettibone@hornershifrin.com

Agenda items:

- We will recap our Engineers Week activity at the St. Louis Science Center. It should be a fun time.
- Alison Graves and Melantha Norton are heading up our planning group to host the 2014 Younger Members Council here in St. Louis next January. They will have a report about what the planning committee discussed at their February meeting. If you have some creative fundraising ideas, please don’t hesitate to let Melantha or Alison know.
- We are committing to help out the SIUe student group with the Mid-Continent Regional Conference. We will provide lunch at the Saturday Concrete Canoe races in Edwardsville on April 6th, so we will need people to hand out food. We will also be speaking to the groups later that night at the awards ceremony.
- We have a spot or two open for the Institute for Engineering Career Development seminar in Chicago, IL.
- We are responsible for a speaker in May. Any ideas?
Upcoming Events:

March 12 – Bowling at Flamingo Bowl. Join us for America’s #1 Participant sport! We will reserve a few lanes at the Flamingo Bowl. First game is on the YMG. Please email Alison Graves (Alison.Graves@Jacobs.com) with your RSVP.

April 4-6 – Mid-Continent Regional Conference (Steel Bridge and Concrete Canoe student competitions) at SIUE

April 22 – Earth Day – Collaboration with the Sustainability Committee at Forest Park (?)

April 27 – Rebuilding Together. Britt Marron will be our Team Captain again this year. You do not have to be a skilled laborer to help out. If you have a willing heart and a strong desire to help out, you’re in! Just let Britt know. The more we have signed up, the easier the workload will be. RSVP to Britt at marronbm@pbworld.com

Late Spring – Ameren Tour

Earthquake Awareness Week at the Science Center – February 9th, 2013

Chad Schrand and Sarah Bruehl show off ASCE’s fancy Earthquake Awareness Exhibit

The infamous Lego Shake Table made its triumphant return to the St. Louis Science Center.

Lots of kids wanted to see if their Lego building could sustain a large earthquake ↓
Engineers Week at the Science Center – February 23rd, 2013

We were positioned in the “Structures” section of Science Center. Our exhibit had kids take part in the construction of a cable stay box bridge. This was a great tool to show kids how this was related to the new Mississippi River Bridge under construction.

Melantha Norton helps connect the 2 spans of the cable stayed box bridge.

Past President Elise Ibendahl explains the construction sequence of the cable stay bridge.

Greg Helton and Tayler Kurtzman help some eager scouts build the ASCE cable stay box bridge.
A YM’s perspective: the 2013 Multi-Region Leadership Conference

by Alison Graves

I was so fortunate to recently attend the 2013 Multi-Region Leadership Conference held in Milwaukee, Wisconsin on January 11 and 12. A quick overview: the conference is comprised of the Workshop for Section and Branch Leaders (WSBL), the Younger Member Council (YMC), and the Workshop for Student Leaders (WSL). This was a fantastic opportunity to learn more about ASCE, meet the regional and national leadership, make tons of new contacts within ASCE and develop new ideas on how to improve the Section and Younger Member Group. Matt Harper and Mike Beuchter represented the St. Louis Section at the Workshop for Section and Branch Leaders and St. Louis University students were local representatives to the Workshop for Student Leaders.

At the MRLC, our section was honored to receive two major awards!

Matt and Mike accepted the 2012 Outstanding Section Award, recognizing our “outstanding contribution to the Society and the St. Louis community through your programs and activities. It is a testament to the group of talented and committed professionals that comprise the membership, committees, and executive board of the St. Louis Section.”

Melantha Norton and I accepted the 2012 Diversity Award, recognizing our “stellar efforts in demonstrating your support of equitable opportunity for participation of people within the civil engineering profession without regard to race, ethnicity, religion, age, gender, sexual orientation, nationality, or physical challenges. From the strategic direction of your Committee on Diversity & Inclusion, the Section’s trailblazing commitment to tracking and reporting demographics of chapter leadership, sustained Younger Member committee’s commitment to sharing their expertise via the Rebuilding Together community initiative, to your collaboration with the St. Louis Metropolitan District focused on addressing issues of disparity, the St. Louis Section is an ASCE model for making sustained and impactful contributions to creating a more inclusive profession.”

Melantha and I attended the Younger Member Council and we participated in sessions geared towards leadership development of our young professionals. Session topics included Sustainability, Roberts Rules of Order, Roundtable Group Reports, Hosting a STEM Expo, Social Media and Project Management for Younger Members. Of particular interest were the Roundtable Group Reports, where Younger Members brainstormed and shared ideas about what worked and what didn’t within their own Groups back home. In addition to the sessions, we attended social events that highlighted the great city of Milwaukee, including The Miller Brewery tour on Friday night and a fun Beer Barons tour on Saturday.

We were very pleased to get to know the local leadership here in St. Louis, including the area governors. The conference was very energizing, and we left ready to implement some new ideas within our own YM Group relating to Outreach, Leadership Roles and Recruiting and Retaining New Members.
Looking forward to January of 2014, the Multi Region Leadership Conference will be held here in St. Louis, downtown at the Hilton at the Ballpark! Melantha and I are chairing the Central Region Younger Member Council and we have begun preliminary planning with a committee of 5 other Younger Members. It will be a significant effort to organize the Younger Member Sessions and plan (and fund) 3 social events for all three groups at the MRLC, but we will all gain great experience from our involvement.

The 2014 CRYMC Conference presents a unique opportunity for you or your company to show your support for Leadership Development for our Younger Members. We would love to have a session focused on an interesting local project and are looking for great ideas and presenters. Sponsorships from local companies are also needed. If your company is interested in supporting young engineers at this conference, or if you have any ideas for fundraising, social events or an interesting technical tour, please contact me at alison.graves@jacobs.com or Melantha at mnorton@stlmsd.com.

Attention Ladies!
“Introduce A Girl to Engineering Day” at St. Louis University was cancelled during Engineer’s Week due to weather and has been rescheduled for Tuesday, March 26th. Because of the date change, a few more professional-sector volunteers are needed to join high school girls who may be interested in an engineering career for lunch. Lunch is provided by SLU, along with a parking voucher. Lunch is from 12-1 pm at SLU, and professional-sector volunteers are asked to sit with the girls at lunch to answer any questions they may have and to share experiences about an engineering career. We could also use one more professional-sector panelist, who would talk briefly about their experiences in engineering and answer questions as part of a student/faculty/professional sector panel during lunch. If you’d like to volunteer, contact Elise Ibendahl at eibendah@ch2m.com. (If you have already signed up, there is no need to RSVP again.)

**ASCE Professional Development**

| SPRING 2013 - SUMMER 2013 ASCE Continuing Education Seminars and Workshops |
|-----------------------------|------------------|----------------|----------------|
| May 2013                    |                  |                |
| HEC-RAS Computer Workshop   | May 15-17, 2013  | Denver, CO     | H              |
| Earthquake-induced Ground Motions | May 16-17, 2013 | Rapid City, SD | S/G            |
| June 2013                   | Full Date        | City/State     | Tech Div.      |
| Wind Loads for Buildings and Other Structures | June 13-14, 2013 | St. Louis, MO  | S              |
| July 2013                   | Full Date        | City/State     | Tech Div.      |
| Designing Non-Building Structures Using ASCE 7-10 | July 25-26, 2013 | St. Louis, MO  | S              |
| August 2013                 | Full Date        | City/State     | Tech Div.      |
| September 2013              | Full Date        | City/State     | Tech Div.      |
| Dam Breach Analysis Using HEC-RAS | September 11-13, 2013 | Denver, CO     | H              |
| Low Impact Development Applications for Water Resource Management | September 12-13, 2013 | Rapid City, SD | E/H            |
| Soil and Rock Slope Stability | September 26-27, 2013 | Denver, CO     | G              |
**Cut-Off Wall Technologies Seminar**

**Tuesday, March 26, 2013**

The Engineers’ Club of St. Louis
4359 Lindell Blvd., St. Louis, MO 63108
Tel: 314-533-9333; www.engineersclub.net

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**Technical Agenda**

- Description of Local Projects
- Cement/Bentonite Wall Projects
- Quality Control procedures
- Mix Designs
- Production Rates
- Problems and Solutions
- Technologies Available
- Questions

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**Seminar Rates**

Seminar fee* is $50 per person with a reduced rate for government employees and students of $35.
Includes seminar handouts, breakfast and lunch.
* Make checks payable to **ASCE Saint Louis Section**

Payment can be made at the seminar but pre-registration is required

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**Registration**

By email at nicholas.roth@psiusa.com or mail to:

PROFESSIONAL SERVICE INDUSTRIES
Attn: Nicholas Roth
8669 Olive Boulevard
Saint Louis, MO 63132

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St. Louis Chapter of the
Geotechnical Institute of ASCE
Presents
Case Histories Seminar and Student Projects

DATE AND TIME:  April 4, 2013   5:00PM to 8:30PM
                  5:00pm Registration and social hour begins
                  5:30pm Student posters presented
                  6:00pm Program begins
                  (finger foods and cash bar)

LOCATION:  Engineers Club, 4359 Lindell Blvd.  St. Louis, MO  63108
COST:  $25.00 professional;  $15.00 students.  Two (2) PDHs will be awarded.  Advanced payment is appreciated. ASCE is charged for all reserved meals. If you’ve signed up and can’t make it, please cancel by 04/02/13 or we will have to charge you for the meal.

RSVP:  Please RSVP by 03/31/13 to:  ASCE St. Louis Section, c/o Nicholas Roth, Professional Services Industries, Inc. (PSI), 8669 Olive Boulevard, St Louis, Missouri 63132, phone:  (314) 432-8073, email:  nicholas.roth@psiusa.com

Mark Hampton, P.E. - Hayward Baker, Inc. –Thornton Composite Reservoir
The Metropolitan Water Reclamation District of Greater Chicago is turning the existing north lobe of the Thornton Quarry into an 8 billion gallon reservoir for combined sewage overflow (CSO). Hayward Baker’s scope work for the Thornton Composite Reservoir Project, Contract 04-201-4F, consists mainly of installation of a 9,800 ft. long double-row grout curtain around the perimeter of the proposed reservoir. The grout curtain will act as a water cut off to minimize the infiltration to and exfiltration from the proposed composite reservoir. To perform this work, Hayward Baker (HBI) has utilized state of the art materials, equipment and software including their proprietary automated computerized monitoring system, iGrout. iGrout records, displays and controls the grouting and pressure testing in real time as the grout curtain is constructed. The drilling required for the grouting program was completed using water actuated down-the-hole hammer techniques to accurately install each grouchole to depths reaching 570 ft. The grout curtain is scheduled to be completed during the summer of 2013. The presentation will discuss the grout curtain design, grouting equipment, materials, construction activities and challenges associated with this project.

Jim Bailey – Shannon & Wilson, Inc. – Relief Well Rehabilitation
Pressure relief wells, like all wells, require periodic maintenance in order to operate efficiently when needed and prevent damage to the levee or dam. Unfortunately most pressure relief wells are never developed properly at the time of construction which results in conditions that enhance the deterioration of the wells performance over time. This presentation will discuss two recent relief well rehabilitation projects that utilized an innovative induced resonance technology to help rehabilitate the wells. One project was completed by the USACE Baltimore District on 34 pressure relief wells at the Curwensville Dam, in Pennsylvania; the second project was for the USACE St. Louis District on 10 pressure relief wells along two levee systems near St. Louis.

Eric Neuner, P.E. – Geotechnology, Inc. – Seismic Strengthening of the Memphis Pyramid
The former basketball arena was constructed prior to current seismic safety codes. As part of the seismic upgrade to redevelop the site into a Bass Pro Outdoor World, a detailed seismic evaluation of ground conditions, liquefaction, and seismic slope stability was performed. Having demonstrated that the project fell short of current standards, performance criteria needed for specialty design-build foundation contractors to evaluate and cost the improvements was developed. Geotechnology performed the desk study, geotechnical exploration (borings and CPTs), and prepared a design-build performance-based specification for specialist ground improvement contractors to protect the Pyramid in the event of slope failure due to a major seismic event. The seismic behavior was modeled using slope stability and finite element analysis software.
Engineers’ Club of St. Louis

PRESENTS:

Growing Green, Green Buildings and Sites

Join the Engineers’ Club of St. Louis for an informative half-day discussion of how to improve building and site performance and how to make both more environmentally friendly. Presentations will focus upon improvements that may be made, and opportunities that may be capitalized upon, in existing and new buildings to improve sustainability. Speakers will also discuss how to integrate green improvements into a site and building design to help meet strict regulations, including MSD stormwater regulations. An introduction of the new Sustainable Sites Initiative will also be made. This seminar represents a great opportunity to consider green building improvements and site design from a holistic perspective.

SPEAKERS INCLUDE:

U.S. GREEN BUILDING COUNCIL-MISSOURI GATEWAY VOLUNTEERS AND MSD STAFF

At:
The Engineering Center
4359 Lindell Blvd. – St. Louis Missouri, MO 63108
Friday, March 15, 2013
Registration 7:00 AM to 8:00 AM Program 8:00 AM to 12:00 PM Lunch to follow

4.0 PDH’s provided

Cost:
$50 per person for Engineers’ Club and USGBC-Missouri Gateway Chapter Members
$75 for non-members
Pay by cash or check at door, make checks payable to “The Engineering Foundation of St. Louis”
Please RSVP by Friday March 8, to:
Kurt Krispin at kurt.krispin@engineersclub.net Or call 314.533.9333
Reservations limited to 100 people, no shows will be charged

A limited number of sponsorship and display opportunities are available at a cost of $80
Those interested in sponsorship please contact
Rebecca Losli at rblosli@yahoo.com
Or call 314.262.2055
The Engineers’ Club of St. Louis

PRESENTS:

Negotiations in the Workplace for Introverts

Join us for a 45 minute introduction to interest based negotiations strategies. This class is specifically designed to provide professionals with strategies for surfacing good ideas, working through conflict, and understanding other viewpoints. During this course, participants will learn the framework from which to better communicate with peers, subordinates, management and clients.

The speaker, Vance Crowe is the CEO of Articulate Ventures, a communications firm that helps executives explain complex information in ways that are simple to understand and easy to agree with. Vance has trained professionals around the globe and holds a master's degree in Cross-Cultural Negotiations from the Whitehead School of Diplomacy at Seton Hall University, and his former employment includes the United States Peace Corps, the World Bank Group, and various broadcast media outlets.

At:
The Engineering Center
4359 Lindell Blvd. – St. Louis Missouri, MO 63108
Wednesday, March 20, 2013
Registration 11:30 AM to 12:00PM
Lunch 12:00 PM to 12:30 PM
Program 12:30 PM to 1:15 PM

Cost:
$15 per person for Engineers’ Club Members
$25 for nonmembers
Pay by cash or check at door, make checks payable to “The Engineering Foundation of St. Louis”

Please RSVP with:
Kurt Krispin at kurt.krispin@engineersclub.net Or call 314.533.9333
Reservations limited to 100 people, no shows will be charged
Reservation required by Friday, March 15, 2013

1 PDH to be provided
The Engineers’ Club of St. Louis

PRESENTS:

The Hard Truth:
Bricks and Building in St. Louis

Do you know the following historic facts about brick making in St. Louis, if not join us and find out:
Where were the mines, very close to the Eclub?
What clays and shale were used?
What was the process to manufacture brick?
How many manufacturers were in production?
What products were produced by various manufactures?
What were the dimensions of brick? Refractory and face brick and other countries.
What were some for the styles/names of brick manufactured?
How was clay transported to production faculties?
Who were the Cheltenham Icarians?
Where was the little 30 inch mine railroad operated and pictures of the engine that pulled clay cars?
Where did the Civil War action occur along Manchester Road and what was the outcome?

At:
The Engineering Center
4359 Lindell Blvd. – St. Louis Missouri, MO 63108
Thursday, March 28, 2013
Program starts at 7:00PM
Snacks and Soft drinks will be available

Cost:
Free to Engineers’ Club Members and their guests
Please RSVP with:
Kurt Krispin at kurt.krispin@engineersclub.net Or call 314.533.9333

A limited number of sponsorship and display opportunities are available
Those interested in sponsorship please contact
Michael Buechter mtbuc@stlmsd.com
Or call 314.768.2772

Speaker: Milton J Murry, a long time EClub member, has two Electrical Engineering degrees, BSEE Missouri School of Mines and Metallurgy 1964 and MSEE University of Missouri Rolla 1980. This research and talk was inspired by the finding of various bricks in alleys near his home last summer, 2012. Further research into the names that appeared on bricks help to develop the historical information that is presented.
The American Society of Civil Engineers (ASCE) of St. Louis would like to invite middle and high school students in the St. Louis Metropolitan area to participate in the 2013 West Point Bridge Design Contest.

History - Founded in 1802, the United States Military Academy at West Point was the first school in the US to offer a formal engineering program. West Point continues their role in developing the nation’s infrastructure by providing students with an engaging introduction to engineering. St. Louis is happy to continue our support of the competition.

Contest –
- Download and install the West Point Bridge Designer 2013 software (free software, downloads begin Jan 14, 2013)
- Use the software to design and test a virtual bridge (practice software available before contest)
- Register your team
- As part of your registration (final page), include the St. Louis Local Code: SLBC
- Log in and submit as many designs as you like!
  [You can view the Local Contest Score Board to see how your team is doing, updated every 24 hours]

Prizes –
- See the National Site for prize details at national level!
- The St. Louis Local Contest has cash prizes for 1st and 2nd place!
  - $300 for 1st Place (total prize, $300 for individual or $150 for 2 member team)
  - $200 for 2nd Place (total prize, $200 for individual or $100 for 2 member team)

Important Info – The West Point Bridge Design competition allows for a truly open ended design, which allows students to participate both nationally and locally simultaneously; therefore no design criteria is specified. Additionally, teams are required to be in the Metropolitan St. Louis area and must be middle or high schools students (at ASCE, St. Louis discretion). Winners are required to contact coordinator (Stephanie Spann) in order to claim prizes no later than April 30, 2013. Students do not have to compete and win nationally to win locally. Additionally, students may register and submit (as often as they like) at any time during the local contest dates.

Contest Notable Dates –
- National/Local Contest Registration Begins: January 14, 2013
- National Qualifying Round: January 15-March 25, 2013 (Local Contest begins Jan. 15)
- Local Contest Completion Date: April 1, 2013 (Local contest consists of one round!)
- National Semi-Qualifying Round: April 5, 2013; 1pm-3pm EDT
- National Final Round: May 2, 2013; West Point, New York

Questions? – Need help with the design? Unsure about contest rules? Just need more info? Please feel free to contact Stephanie Spann (stephanie.spann@hok.com) for questions or concerns!
Post-Construction Stormwater BMP Practitioners Certificate Program

The University of Missouri – Kansas City School of Computing and Engineering has teamed with local practitioners in St. Louis and Kansas City to create a much needed, advanced level stormwater management training program and provide attendees with unique documentation in their chosen field of specialization.

Click here for complete information about the Kansas City program (Thursday, April 11th, 2013): http://info.umkc.edu/sce-continuing-ed/2012/11/stormwater-inspection-and-maintenance-for-post-construction-bmps/

Click here for complete information about the St. Louis program (Tuesday, April 23rd, 2013): http://info.umkc.edu/sce-continuing-ed/2013/01/post-construction-stormwater-bmp-practitioners-certificate-program-st-louis-session/

The program goal is to develop a standard for post-construction stormwater BMP design, construction, inspection and maintenance competencies in the U.S. mid-continent region. During this session, EPA Region 7 will introduce the history of stormwater quality regulations, SIUEEdwardsville faculty will discuss hydraulic and hydrologic theory and expert practitioners will present the full range of disciplines and expertise necessary to successfully integrate the components of these stormwater management systems.

Upon completion of this session, attendees will be better able to:

- Describe how the EPA’s past, present and future policies, regulations and rules impact stormwater management practitioners.
- Distinguish the roles that designers, contractors, inspectors and maintenance providers are called upon to fulfill in these increasingly complex stormwater systems.
- Define the reasons for and the benefits of collaboration among the project team.
- Demonstrate practical knowledge about the pollutant removal potential of engineered soils and native plants.
- Apply know-how gained from recognized experts in all phases of post-construction BMP design, construction, inspection and maintenance.

This program is not designed for those with limited experience in this market. Rather, the content is geared toward practitioners experienced with stormwater BMPs.

The Post-Construction Stormwater BMP Institute is the newly created home for practitioners, offering a place in this industry to gather – both in the classroom and over the Internet – and share ideas and experiences about the application of BMPs in the mid-continent region of the United States. We hope that you will join us for this inaugural program of what promises to be a dynamic, collegial home for stormwater industry experts.
NASCC
THE STEEL CONFERENCE
Incorporating the SSRC Annual Stability Conference and the Technology in Steel Construction Conference

April 17–19 2013
LEARN. MEET. SEE.

Join more than 3,500 structural engineers, erectors, detailers, educators and others involved in the design and construction industry when they gather this April at the NASCC: The Steel Conference, incorporating the SSRC Annual Stability Conference and the Technology in Steel Construction Conference. One registration fee includes all three conferences.

Learn from more than 100 specialized sessions on all aspects of steel building and bridge design and construction. Meet with the nation’s leading designers, fabricators, and erectors. See the latest equipment and software in the 200+ booth exhibit hall.

To view the advance program, visit
WWW.AIISC.ORG/NASCC
Missouri Concrete Conference
April 23-24, 2013
Havener Center, Rolla, Missouri

Join us and our distinguished group of regionally and nationally known professionals who will be speaking at this year's Missouri Concrete Conference.

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

Sessions include:

**Construction & Rehabilitation**
- Problems & Solutions Prestressed Box Beams, Deck Joints & Grid Camber
- Successful Full Depth Reclamation
- RPremature Failure of Airfields: Problems & Solutions
- Pavement Joint Repair: Precast Modular Slabs
- Remedies for Building Slab Moisture Problems
- BConcrete in the World Trade Center Project
- TRoute 50 SCC Girders & HVFA Substructure

**Materials**
- Type I-L Cement & Use of Ground Limestone
- Making Concrete Mixtures: Jump Through Hoops
- Recycled Concrete Aggregate for Structures
- Recycled Concrete Aggregate for Paving
- Petrography
- Laser Induced Breakdown Spectroscopy
- Basics of Quality Concrete
- Ternary Mixtures
- Roller Compacted Concrete: Residential Streets
- Shoulder RCC

**Design and Specifications**
- Bonded Concrete Overlays
- New Pre-Cast Specs
- Big Bridges Update
- PCI Round Robin
- Poplar Street Bridge Overlay
- Precast Substructure Elements
- TCCC Training
- St. Louis County Specification Changes
Missouri Chapter American Concrete Institute
Annual Meeting Luncheon - Tuesday, April 23

All persons attending the conference are invited to join ACI members for the Annual Meeting Luncheon on Tuesday, April 23. Please make your reservations when you register for the conference online at http://concrete.mst.edu.

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

Please forward this announcement to anyone who might be interested.

Distance and Continuing Education
Missouri University of Science and Technology
216 Centennial Hall, 300 West 12th Street
Rolla MO 65409-1560
Phone: 573-341-6222
Email: dce@mst.edu

Outreach

NCEES Seeking Input for PE Civil Exam

NCEES is seeking licensed civil engineers to participate in an online survey to update the specifications of the PE Civil exam. This survey is open until February 25. It will take about an hour to complete and can be found at http://ncees.org/civilsurvey. We would appreciate it if you would complete the survey or pass it along to your colleagues who practice civil engineering.

Please note that you do not have to complete the survey in a single session. If you cannot finish the entire survey in one sitting, click the Save button. Once you have clicked Save, the software will produce a unique URL (link) to access the survey containing your saved responses. You will not be able to return to the questions before the page you saved upon reentering the survey, so please be sure to respond to all questions on the previous pages before you save and exit. Record this new link by copying and pasting it to a notepad or sending yourself an email to return to the survey at a later time. If you do not re-access the survey using the saved link, your responses will be lost, and you will need to resume the survey from the beginning.
Employment

www.twm-inc.com

Licensed Professional Engineer / Project Manager – Transportation Engineering

IMMEDIATE OPENING: Thouvenot, Wade & Moerchen, Inc., one of the largest civil engineering firms in the St. Louis area, is currently taking applications for a Civil Engineer with design experience in the field of Transportation Engineering to be based in our downtown St. Louis branch office. TWM is an established but growth oriented consulting firm offering Civil and Structural Engineering, Surveying and Planning services in the St. Louis metropolitan region.

We are looking for someone with enough experience and ability to join our team and immediately help in managing and designing a wide variety of state, county and local public agency transportation projects.

Must be a Civil Engineering graduate and a licensed PE in Missouri, with Illinois license preferred as well. At a minimum, candidates must have six years experience post graduation with at least three years in the design of roads, streets and/or highways on Missouri Local Public Agency, MoDOT and/or Great Rivers Greenway projects, along with an understanding of the policies and procedures of these entities. Project experience on St. Louis area LPA and MoDOT projects preferred. Must be proficient with Bentley MicroStation and Geopak software. Must be able to work independently and also possess the ability to direct the work of junior staff. Potential for additional managerial responsibilities in the future. Experience in drainage or another "specialty" like hydraulics, bike trails, a plus, as is PTOE certification.

Competitive salary and fringe benefits with exceptional bonus incentives. Starting salary dependent upon personal knowledge, skill and ability. Regular salary reviews and Employee Stock Ownership Plan.

To apply visit www.twm-inc.com, click Careers and How to Apply and follow the instructions. Use the application for Licensed Engineers / EITs / Design Engineers. Indicate “Application – Licensed Transportation Project Manager” in the subject of your email. Your transcript can be emailed or sent under separate cover.

If your software does not support this download, call (618) 624-4488 and ask that an application form be mailed to you. No other phone calls, please.

Apply early. Interviews will commence as soon as qualified candidates are identified. Position will be filled as quickly as possible.

TWM is an equal opportunity employer.

www.twm-inc.com

Structural Engineer / EIT

IMMEDIATE OPENING: Thouvenot, Wade & Moerchen, Inc., one of the largest civil engineering firms in the St. Louis area, is currently taking applications for a Licensed Professional Engineer, Structural Engineer, or Engineer in Training with specialization in the field of Structural Engineering. Position would be in the Corporate Branch office in Swansea, which is located approximately 15 miles east of St. Louis, or in Waterloo, Illinois to start, with the potential to transfer to another of TWM’s St. Louis area offices. TWM is an established but growth-oriented consulting firm offering Civil and Structural Engineering, Surveying and Planning services in the St. Louis metropolitan region.

We are looking for someone with the ability to join our team and immediately help in designing a wide variety of bridge and other structural engineering projects.
Must be a Civil Engineering graduate with structural emphasis and certification as an Engineer in Training (EIT). Professional Engineer / Structural Engineer license is not required. Position could be for someone with up to three years of structural design experience, or a recent graduate. Direct experience in the design of highway bridges, retaining walls, CMU buildings, and reinforced concrete tanks and foundations (piles, drilled shafts, etc.) is a plus. Should have demonstrated ability with CAD, spreadsheets and general structural analysis software. Must be able to learn quickly and work independently.

Competitive salary and fringe benefits with exceptional bonus incentives. Starting salary dependent upon personal knowledge, skill and ability. Regular salary reviews and Employee Stock Ownership Plan.

To apply visit www.twm-inc.com, click Careers and How to Apply and follow the instructions. Use the application for Licensed Engineers / EITs / Design Engineers. Indicate “Application – Structural Engineer / EIT” in the subject of your email. Your transcript can be emailed or sent under separate cover.

If your software does not support this download, call (618) 624-4488 and ask that an application form be mailed to you. No other phone calls, please.

Apply early. Interviews will commence as soon as qualified candidates are identified. Position will be filled as quickly as possible. TWM is an equal opportunity employer.

Research Assistant Position in Geotechnical Engineering

A research assistant position for supporting a MS or PhD degree applicants is immediately available in the geotechnical engineering program at SIUE. High qualified applicants are encouraged to apply. Knowledge of Finite Element modeling and familiarity with FLAC or Plaxis or Abaqus is a plus. Applicants should submit an statement of purpose along with their CV to Dr. Abdolreza Osouli at aosouli@siue.edu. More information about the graduate admission process can be found at http://www.siue.edu/engineering/civilengineering/graduate/admission.shtml.

Water Resources and Environmental Engineering Faculty Position.

The Department of Civil Engineering at Southern Illinois University Edwardsville is seeking to fill one tenure track position in Civil Engineering at the Assistant Professor level to begin August 16, 2013. The successful candidate must have the ability to teach undergraduate and graduate courses in civil engineering with emphasis in water resources and environmental engineering, conduct research with emphasis in water resources and environmental engineering, and participate in service activities. Candidates with a background in hydrology, green infrastructure, urban water quality, or watershed management are preferred. A background allowing candidates to work across sub-disciplines in civil engineering, such as geotechnical or transportation engineering, is an asset. Candidates should have an educational background that would permit licensure as a professional engineer, hold at least one degree in civil, water resources, or environmental engineering, and be nearing completion of or already possess a doctoral degree in civil engineering or a closely related field. Information about the department can be found at www.siue.edu/engineering/civilengineering/. Interested persons should send a letter of interest, the curriculum vita with a list of three references, a one to two page of teaching and research statement all assembled into one PDF file to ce-admin@siue.edu. Review of applications will begin on March 1, 2013 and will continue until the position is filled. SIUE is an Affirmative Action/Equal Opportunity employer that strives to enhance its ability to develop a diverse faculty and staff and to increase its potential to serve a diverse student population. All applications are welcomed and encouraged and will receive equal consideration. SIUE is a state university that is part of the metropolitan St. Louis area. Benefits under state sponsored plans may not be available to holders of F1 or J1 visas. Applicants will be subject to a background check prior to an offer of employment.

Have some ASCE Student Chapter news to share? ASCE student chapters associated with the St. Louis Section are encouraged to submit articles to the newsletter. See the newsletter submission information near the end of this issue for more information.
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 Brent Vaughn at bvaughn@siue.edu. 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

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).