April Luncheon
11:30 am to 1:00 pm, Tuesday April 9, 2013

MSD Update
Speaker: Dr. Robert T. Berry, PE

Topic
Update on MSD.

Bio
After four years on active duty with the US Army in Europe, Bob joined Burns & McDonnell’s Kansas City office as an environmental engineer in January 1976. He worked there as a project engineer, project manager, director of business development and as a vice president before opening the St. Louis Office of Burns & Mac in 1989. He retired from Burns & Mac after 32 years, at the end of 2007 after growing the office to over 130 people. Since retiring, Bob has worked as an adjunct professor for Missouri S&T as well as conducting training courses geared to professional engineers. He works as a volunteer for various organizations, including Shriners Hospital for Children.

Bob has been a member of ASCE since the early 1970’s and is a St. Louis Chapter, past chapter director. He has a BS in civil engineering from Rolla, a masters in engineering management from Boston University, a masters in environmental engineering and a doctor of engineering from the University of Kansas.

He was appointed to the MSD board of trustees by County Executive Charlie Dooley in March 2008 and reappointed to a second four-year term in March 2012. He has served as chair of the board twice: once from mid-2008 to early 2009 and again for two years from March 2011 to March 2012. He has also served as board vice-chair, chair of the program management committee, chair of the audit committee and a member of the pension committee and finance committee.

Time, Date, Location
11:30 am to 1:00 pm, April 9, 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

I hope you all had a chance to read Tim Logan’s excellent articles in the Post-Dispatch last month regarding infrastructure along the Mississippi River and its relationship to the economic well-being of our metropolitan area. (If you did not, here is a link to the main article:
http://www.stltoday.com/business/local/article_fcd023ad-8197-5b7e-9358-d4279ee0b244.html#.UTyht4Tzltk.twitter)

You may also have read that Mayor Slay joined a group of Mississippi River mayors in Washington D.C. to ask Congress to devote more attention to the river and to come up with a nationally recognized plan for the Mississippi. They want to raise the profile of the river in hopes of eventually winning money for projects and to better manage its resources.

Well, the timing of these efforts could not be better. As you are all aware, the Society released its Report Card for America’s Infrastructure last week and graded the nation’s ports a “C”, inland waterways a “D-”, dams a “D”, and levees a “D-”. Our nation’s water resources are critical to our economy, our infrastructure, public safety, and the preservation and enhancement of our environmental resources. In fact, ASCE’s Failure to Act economic study on the nation’s marine ports and inland waterways shows that just underinvesting in just these two sectors threatens more than 1 million U.S. jobs and $270 billion in U.S exports by 2020.

At the legislative fly-in last month, members of our delegation strongly urged our elected representatives to pass a Water Resources Development Act (WRDA) in the 113th Congress. A WRDA bill that fosters economic growth and job creation through policies that strengthen U.S. infrastructure will allow the nation (and the St. Louis Metropolitan Region) to remain competitive in the Twenty-First Century. According to ASCE, this legislation should:

- **Create a National Levee Safety Program:** Congress must take action and enact federal legislation to protect American citizens from the catastrophic effects of levee failures. A levee safety program should be modeled on the successful National Dam Safety Program and should require the federal and state governments to conduct safety inspections for all levees. The completion of a national inventory of levees must also be central requirement to a newly created levee safety program.

- **Reauthorize the National Dam Safety Program:** ASCE urges Congress to include bipartisan language, that would reauthorize the National Dam Safety Program through 2016 at $13.9 million annually, while providing grants to improve state dam safety programs through training, technical assistance, public awareness, inspection, and research.

- **Increase revenues for the Inland Waterways Trust Fund:** The tax rate for the trust fund has been 20 cents per gallon since 1995. ASCE believes that an increase in the waterways user fee is long overdue, and recommends that the current fee be increased to between six and nine cents a gallon, while also tying the fee to the consumer price index.

- **Restore Trust in the Harbor Maintenance Trust Fund (HMTF):** The current trend toward reduced investments in our ports and harbors has led to greater balances in the HMTF. Congress should enact legislation, which contains a provision requiring the total of all appropriations from the HMTF each fiscal year be equal to all revenues received by the HMTF
each year. Congress should also guarantee that appropriations are not taken from other Corps of Engineers programs
due to the potential increased funding from the HMTF.

At this point in time, the Senate Environment and Public Works Committee has held several hearings on a WRDA bill and
released a bill out of committee (with a unanimous, bi-partisan vote) in mid-March. In the House, while no hearings have
been held on the issue, the Chairman of the Transportation and Infrastructure Committee has stated that WRDA will be the
first issue that the Committee will tackle in the 113th Congress and that a draft bill will be forthcoming later in the year. We
will make sure to keep you apprised of the status of this important legislation.

Things I Think (When I’m Not Thinking About Engineering)

- As I write this, I’m third in my NCAA basketball pool. My Final Four: Louisville, Gonzaga, Georgetown, and Miami.
  Champion: Louisville.
- Nothing against Macy’s but I miss Famous-Barr.

And while I’m in a nostalgic mood, I was also a big fan of Velvet Freeze ice cream.

Until next month, Steve.

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

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/ under the “Awards & Scholarships” tab or the information can be emailed or mailed to you upon request.

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

### Ritenour High School Engineering Week Exhibition

On March 7, 2013, ASCE Member John Weiland and ASCE Student Member Greg Helton volunteered at an exhibit on behalf of the ASCE St. Louis Section at the Ritenour High School’s Fourth Annual Engineering Week. This event drew exhibits from several companies and universities in the greater St. Louis and Missouri area to provide information to high school students on careers in engineering. Ritenour High School participates in a four-year program for high school students interested in engineering, providing more detailed and specialized information in each successive year based on the students’ selected engineering discipline of interest. The Exhibition also included displays of students’ engineering projects. Of Ritenour High School’s 1200 students, approximately 300 participate in their engineering program.

For the first time, ASCE is participating in the St. Louis Earth Day Festival! Our goal is to spread the word about our new Sustainability Committee as well as Envision, the new sustainability project rating system for civil infrastructure projects. We are looking for volunteers to help pass out literature.

**IMPORTANT:** You do not need to be a sustainability expert to help out. At this point, we’re simply trying to raise awareness about this new tool. If people are interested, we can arrange an informational get together before hand to cover the basics of Envision.

So, if you’d like to have a fun day at a cool event helping out for a good cause all while learning about a topic that could impress your employer and advance your career, please contact Marty Chorkey – machorkey@hornershirfrin.com.
100th Anniversary Planning Committee Volunteer Opportunity

In October 2014, the St. Louis Section will celebrate its 100th Anniversary as an official ASCE Section. Over the past several months, a group of Past-Presidents have been brainstorming to identify potential ways to celebrate this momentous occasion. Ideas that are being considered include:

- Purchasing billboard displays to commemorate the occasion and/or promote Civil Engineering
- Creating a Walking Tour Brochure of significant civil engineering structures in the Downtown St. Louis area (similar brochures could also be developed in other cities within the Section)
- Publishing a Coffee Table book highlighting all of the Outstanding Engineering Achievement Award Winning Projects and ASCE Historical Landmarks
- Publishing articles in the Newsletter on historical events in the Section’s past
- Re-dedicating the Eads Bridge
- Finding synergy with the City of St. Louis 250th Anniversary Celebration plans
- Building a float that would be entered in parades throughout the year
- Sponsoring engineering programs on PBS such as “Underground St. Louis”
- Hosting a Black-Tie Anniversary Party and inviting dignitaries from throughout the Section

Successful implement any or all of these ideas will require the teamwork and commitment of more than a few Past Presidents. The volunteer opportunities are numerous and can be tailored to the amount of time the member is able to commit. To get your name on the volunteer list, please contact Jeff Fouse at jfouse@reitzjens.com.

ASCE Society Standing Committees

As part of the committee restructuring implementation process, we have created an on-line committee application form, which is now active. Applications will be accepted for the Society Standing Committees and their constituent committees through April 19th. A committee member whose term is due to expire will need to apply if they wish to be considered for reappointment. We hope to attract interest from more of our younger members, government engineers, etc. Please encourage your members to apply as soon as possible since many of the appointments must be approved by the Board of Direction at their July meeting. The URL is: http://www.asce.org/society-committee-application/

If you have any questions, please contact Patricia Jones, Aff.M.ASCE, Director of Executive and Board Operations, at pjones@asce.org or at 703/295-6101.

ASCE Professional Development

### SPRING 2013 -SUMMER 2013 ASCE Continuing Education Seminars and Workshops

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<th>May 2013</th>
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<td>HEC-RAS Computer Workshop</td>
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<td>Designing Non-Building Structures Using ASCE 7-10</td>
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<td><strong>August 2013</strong></td>
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<td>Dam Breach Analysis Using HEC-RAS</td>
<td>September 11-13, 2013</td>
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<td>Low Impact Development Applications for Water Resource Management</td>
<td>September 12-13, 2013</td>
<td>Rapid City, SD</td>
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<td>Soil and Rock Slope Stability</td>
<td>September 26-27, 2013</td>
<td>Denver, CO</td>
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On March 12, the Younger Members Group had a bowling night at Flamingo Bowl in Downtown St. Louis. An enthusiastic bunch turned out and had a great time!

Younger Member Events

April YMG Meeting:

Tuesday April 16, 2012 6-8PM

The Dubliner
1025 Washington Ave, St. Louis, MO 63101
www.dublinerstl.com

RSVP to Jordan Pettibone at jepettibone@hornershifrin.com

We are starting to get quite a few YMGers to show up, and I will make sure to get the appropriate sized table(s) for the group.

Agenda items:

→ We will review our time spent helping SIUE ASCE at the Mid-Continent Student Conference. We are providing lunch at the Saturday Concrete Canoe races in Edwardsville on April 6th.

Upcoming Events:

April 27 – Rebuilding Together. We will be teaming with Prudential Realtors and captained by Britt Marron to work on a home in North St. Louis. Email Britt at marronbm@pbworld.com if you are interested in volunteering. You do not need to be certified skill craftsperson to do this work. If you can push a broom, you can help out.

May 2 – Ameren Tour. Todd Bolte is organizing a tour of Ameren's facility in SoCo. More details at the next meeting.
Networking

American Public Works Association
5th Annual Ken Yost Memorial Golf Tournament
(4 Person Scramble)
Monday, May 20, 2013
Paradise Valley Golf Course
1055 Lochmoor Drive, St. Louis, MO 63049
11:00 AM Registration and Lunch; 12:00 PM Shotgun Start

COST - $380 per team on or before May 3rd, $400 after May 3rd

Includes:

- Lunch at the Course
- Driving Range Balls
- Green Fees/Cart
- Beverages on the Course (Soda and Beer)
- Closest to Pin and Longest Drive Prizes
- Awards Dinner with Trophy Presentation and Attendance Prizes

!!!EARLY BIRD PRICING, SAVE $20 IF PAID BY MAY 3rd!!!

Please RSVP No Later Than Monday, May 13th

Space will be limited to the first 36 teams / 144 golfers

Make your check payable to APWA – St. Louis Metro Branch and mail along with this form to:
Bryson Baker, 3939 S. Lindbergh Blvd, Sunset Hills, Missouri 63127

Organization/Team Name _________________________

Contact Person _________________________________
Phone Number _________________________________
Email Address _________________________________

Names: 1. _________________________________
2. _________________________________
3. _________________________________
4. _________________________________

Golf: ___ players x $95 ea. _________
($100/ player after May 3)
Mulligans: $20 / team _________
Skins: $20 / team _________
Hole Sponsor: $100 _________
Lunch Sponsor: $250 _________
Beverage Sponsor: $250 _________
Scholarship Donation: _________

TOTAL: _________

For further information please contact Bryson Baker at 314-849-3400, bbaker@sunet-hills.com
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 grout hole to depths reaching 570 ft. The grout curtain is schedule 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.
Engineering Outreach

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!
Training Class Announcement for
Missouri Structural Assessment and Visual Evaluation (SAVE) Coalition

When: Friday, May 17, 2013
8:00 AM – 4:30 PM

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

Sponsored by the Society of American Military Engineers – St. Louis

The SAVE Coalition’s objective is to assist the Missouri State Emergency Management Agency (SEMA) in the execution of its responsibilities with respect to the use of qualified volunteers in the emergency assessment of buildings following a catastrophic event such as an earthquake, tornado, flood or manmade disaster which causes structural damages.

When a disaster strikes a community, there is an immediate need for damage inspections throughout the affected areas. People need to be kept from using unsafe buildings, and safe shelter must be provided for those left homeless. Regular building inspection officials may become overloaded instantly and require additional help. It is essential that qualified SAVE inspectors quickly identify structures that are safe for reentry and those that must be avoided.

When requested, the SAVE Coalition’s volunteers are available to work for up to three days inspecting buildings to determine if they are safe for occupation. During this service period, the volunteer inspectors are immune from liability for acts committed in the performance of their official emergency duties, except in cases of willful misconduct or gross negligence. Incidental expenses incurred by the inspectors are paid by the local jurisdictions they serve.

SAVE volunteers must attend the ATC-20 Post Earthquake Safety Evaluation of Buildings course to receive inspector credentials and become qualified to assess disaster-damaged buildings. A panel of earthquake and structural experts and building officials has approved all training materials used in this course. During it, procedures and documents are presented which promote uniformity in the rating of damages so that different individuals examining the same building will arrive at the same conclusion about its relative safety. At the course, each SAVE inspector will receive a field manual and detailed instruction to guide their future work. Some professional organizations also award continuing education credit for completion of this course.

SAVE Coalition sponsoring organizations include:
American Council of Engineering Companies/Missouri * American Institute of Architects/Missouri
American Society of Civil Engineers/St. Louis * Earthquake Engineering Research Institute/New Madrid
Missouri Association of Code Enforcement * Missouri Society of Professional Engineers
Society of American Military Engineers/St. Louis * Structural Engineers Association of Kansas & Missouri
Missouri Seismic Safety Commission

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The Society of American Military Engineers – St. Louis Post will provide lunch on-site.

Send completed application by Friday, May 10th to Steve Besemer, State Emergency Management Agency, P.O. Box 116, Jefferson City, MO 65102 or e-mail to steve.besemer@sema.dps.mo.gov. For further information, call SEMA at (573) 526-9232.
Other Professional Development

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 3,600 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.AISC.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 & Grider 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](http://concrete.mst.edu).

For more information, go online to [http://concrete.mst.edu](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
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**Employment**

**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.

Structural Engineering opportunity at Cannon Design

Cannon Design is an Ideas Based Practice, ranked among the leading international firms in planning and design for healthcare, research, education, corporate commercial, sports and government clients. At present, the firm employs a staff of over 1,000, delivering services in 16 offices throughout North America as well as abroad in Shanghai, China, and Mumbai, India. Cannon Design offers challenging and rewarding career opportunities for an experienced Structural Engineer in a dynamic, team-focused work environment in our St. Louis office.

You will be responsible for analysis and design of structural systems/components in steel, concrete, and masonry. Experience in preparation of construction drawings and specifications, and construction review is necessary. Mentor engineers, lead the direction of structural project teams and coordination with the overall project teams. Working knowledge of structural engineering software (RAM, RISA, ETABS), IBC and other national standard codes, Revit proficiency, and good written/oral communications skills a must.

BS and MSCE or Master of Architecture with Structures Option required. PE license and Minimum 7 years of experience with concrete and steel required. Supervisory experience helpful. Our philosophy advocates integrating architects, engineers and interior designers throughout the design process.

Join us at Cannon Design, one of the finest design and project delivery firms in the world. Upload resumes, project listing and cover letter through our career portal located at www.cannondesign.com.

EEO/AA

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.

University News

2013 ASCE Mid-Continent Student Conference set for April 4-6, 2013 at SIUE

The SIUE ASCE Student Chapter is hosting the 2013 Mid-Continent Student Conference on April 4-6, 2013. We expect nearly 300 students from fifteen Midwest universities to attend one or more of the events planned for the conference. The following events are free and open to the public.

• Thursday, April 4: ASCE-AISC Steel Bridge Competition
• Friday, April 5: Technical Paper Competition, Geotechnical Design Competition, Concrete Canoe Display
• Saturday April 6: Concrete Canoe Races

Please come out and see these up and coming young civil engineers put theory into practice. For more details about the conference, please visit http://www.ce.siue.edu/ASCE/MCSC/default.html.
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/city/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).