You are cordially invited to the

GALA DINNER
100th ANNIVERSARY OF
ASCE ST. LOUIS SECTION

NORWOOD HILLS COUNTRY CLUB
SATURDAY SEPTEMBER 20, 2014

~ EVENING FESTIVITIES INCLUDE ~
COCKTAILS AND MUSIC
DINNER AND DESSERT
SCHOLARSHIP AND SECTION AWARD PRESENTATIONS
2014-2015 SECTION OFFICERS INDuctions

~ ENTERTAINMENT PROVIDED BY ~
JENNIFER SHEEHAN
Visit www.jennifersheehan.com for more information.

Keynote Speaker - RANDALL S. OVER
ASCE PRESIDENT

Master of Ceremonies - PATRICK E. GAUEN
ST. LOUIS DISPATCH

Special Guest - GERRY SCHWARTZ
PAST ASCE PRESIDENT

Please visit one of these links for more information and online registration:
http://goo.gl/KCEnUC

Event attire is black-tie optional.
Tickets must be purchased by Friday, September 12, 2014.

REGISTRATION QUESTIONS? CONTACT:
Melantha Norton, Annual Dinner Chair
ASCE St. Louis Section
mnorton@stlmsd.com
President’s Message
Marc Bacchetti

Happy Anniversary!

The St Louis Section is 100 years old, thankfully much older than I, and we celebrate with a Gala on September 20th. We have a lot to be proud of, as members of ASCE and as civil engineers. As I was winding my way across the country over the summer, I was constantly coming across civil engineering marvels, as well as ASCE landmarks and markers. The Missouri River Bridges, the Belle Fourche Dam and the most awe inspiring engineering accomplishment I experienced, the Going-to-the Sun road.

These landmarks and feats showed up everywhere I went. I saw the dams along the Missouri River at Great Falls, which produce so much power it is nick named “the Electric City”. I saw endless trains of coal being hauled across Wyoming rail lines, dams and reservoirs that turned areas of arid scrub brush into irrigated farm land, and roads that allowed us to go almost anywhere, and see nature’s glory. It was a trip of a lifetime.

The Going-to-the-Sun road, an ASCE landmark, is a 50 mile long, winding mountain pass that traverses Glacier National Park. Construction took 12 years, it is only open from late June to late September, and is constantly undergoing repairs due to yearly avalanches. It is a civil engineering marvel that allows millions of people to see some of the most unbelievable scenery in North America.

St Louis is home to 4 of the 6 ASCE landmarks in Missouri. These include the Eads Bridge, Chain of Rocks Water Treatment Facility, River Des Peres, and Union Station. In addition, other engineering landmarks in the area include the Gateway Arch, two major Lock and Dams, and the Mississippi River bridges. We should all be proud of the engineering achievements that ASCE members have contributed to over the years.

I hope that you all are able to attend the gala, and celebrate with us. Your invitation has been sent, and the information is provided at the front of this newsletter. There are too many people to name here that have worked to put together this event, which I am sure will make a wonderful evening. Please join us.

As we enter another year, and the next stewards of the section take office, I am sure they will work to make this the best section it can possibly be, which they have done for all the years I have been on the board. I will make this message brief this time, since I am sure everyone is tired of my ramblings, and looking forward to the next 100 years of civil engineering in St. Louis.

So long and thanks for all the fish!

Sincerely,

Marc Bacchetti PE, SE
Local Community News

CITY OF KIRKWOOD HOLDS RECEPTION FOR DESCENDENT OF JAMES P. KIRKWOOD

The City of Kirkwood held a special reception for David and Gillian Kirkwood, who were visiting the United States from Edinburgh, Scotland, the ancestral home of James P. Kirkwood, a renowned railroad and sanitation engineer in the late 1800’s. The City is named for Kirkwood, who was the Chief Engineer for the Pacific Railroad in 1850’s, responsible for laying out the first leg from St. Louis to the western border of Missouri. He was responsible for the choice of the alignment which led to the founding of the City. Mr. Kirkwood returned to New York in 1867, after which he was elected the 2nd President of ASCE. The St. Louis Section of ASCE erected the memorial (seen in photo) at Kirkwood’s historic Amtrak Railroad Station in April 2012.

David Kirkwood is a descendant of James P. Kirkwood and manages the family’s engraving business, which young James left to pursue engineering. The Kirkwoods told the local dignitaries and crowd of well-wishers that they were “humbled” by the turnout and the many mementoes given to them by the people of Kirkwood, Missouri. What a nice bonus for the St. Louis Section to have our memorial play a part in the festivities for James Kirkwood’s family.

Younger Member Events

September YMG Meeting:
Wednesday, September 24, 2014
ITap
1711 South 9th Street, 63104
http://internationaltaphouse.com/soulard/

Hi YMers!

This is our First meeting for 2014!

Agenda:
- Professional Development
- Goals for the year
- Student Donations
- Budget Considerations
- Gala Recap

Like Our Page on Facebook!

Britt Marron, PE
University News

SIUe Civil Engineering Welcomes a New Faculty Member in Transportation

This fall, the Civil Engineering Department welcomes a new faculty member: Dr. Yan Qi, P.E., Assistant Professor. Dr. Qi earned her Ph.D. in Civil Engineering (transportation) and a M.S. in Applied Statistics, both from Louisiana State University. Prior to coming to SIUE, Dr. Qi was an engineering faculty member with Montana Tech, where she started a new transportation program for the university. Before then, she was a technical manager of the Institute for Multimodal Transportation at Jackson State University, when she managed and conducted many research projects in transportation engineering. Dr. Qi’s research work has been published in various journals such as Transportation Research Record and the Journal of Intelligent Transportation Systems. Her research interests lie within the broad area of transportation engineering with a focus on traffic operation & safety, transportation infrastructure management, and transportation planning & policies. Dr. Qi is a licensed professional engineer. She can be reached at yqi@siue.edu 618-650-2815. You are invited to visit www.siue.edu/engineering/civilengineering/ for the latest news and developments of our Department, and more information about our faculty members.

Volunteer Opportunities

VOLUNTEERS NEEDED

2014 Midwest Levees & Rivers Technical Exchange (MLRTE) OCT 27-29, 2014

Volunteers are needed to work the 2014 MLRTE to be hosted by the SAME St. Louis Post, ASCE St. Louis Section and other participating organizations. There are several areas where we will need help with general titles and descriptions as follows:

On-Site Registration
  4 volunteers required on Monday and 2 on Tuesday and Wednesday to help registration staff and to provide customer service, stuffing bags, etc...

On-Site Technical Programs
  4 volunteers are needed on Tuesday and Wednesday to assist program presenters with computer/AV equipment

Off-Site Events
  Monday Golf Tournament at Forest Park – 4 volunteers required
  Ice Breaker Monday evening – 3 volunteers required
  Tuesday evening dinner and tour – 4 volunteers required, 2 at the hotel, 2 at the zoo
  Wednesday morning Fun Run – 6 volunteers required

On-Site Daily Operations
  2 volunteers needed to provide assistance as required

If you can spend a day, a half day or a couple of hours we can use you. It is anticipated that approximately 30 people will be needed. Times and locations of assigned tasks will be made available as the programs become more developed. Anyone interested please contact Phil Jozwiak at 314-724-6093 or email philjoz@sbcglobal.com
Dear ASCE / ASLA Members and Friends,

It is golf tournament time again, and we want to start by saying thank you to those of you who helped make last year's ASCE / ASLA Golf Tournament a great success. We believe this partnership of the American Society of Civil Engineers and the American Society of Landscape Architects is a natural partnership that has increased the benefits for all who participate, and provide an enjoyable opportunity for our members and friends to interact outside the office. Our noon start has been a success the last two years, but please note we have a slight change in starting time this year to accommodate the golf course, so please pay attention to the shotgun start time on the registration form.

ASCE-St. Louis and ASLA St. Louis Chapter are committed to educating the youth of the St. Louis community about the roles of engineers and landscape architects in our lives, and encourage students to pursue these professional careers. The golf tournaments help support these programs and this will not change. The following is a brief summary of the programs supported by this tournament for each chapter.

ASCE annually presents scholarships to members of the section student chapters at SIU-Edwardsville, SIU-Carbondale, University of Missouri - Columbia, and Missouri University of Science and Technology. Section members also participate in programs such as MATHCOUNTS, Zoom Into Engineering, Future Cities and Building Big as well as volunteering for classroom visits and career fairs.

ASLA supports the The Jerry Loomis Scholarship in Landscape Architecture, sponsored by the American Society of Landscape Architects St. Louis Chapter with a portion of the proceeds. Additional proceeds are used to support the chapter and advance the profession and educate youth to the opportunities presented within landscape architecture.

We want to thank you for your participation and support, and look forward to seeing you at Crystal Springs Quarry Golf Club on Friday September 12, 2014. A registration form with additional information regarding the tournament and involvement opportunities is attached. Space is limited so we encourage you to ensure your spot in the tournament now!

If you have any questions please give us a call.

Sincerely,

The 2014 Annual ASCE / ASLA Golf Tournament Organization Committee

Matthew Glisson, ASCE
Chris Moon, ASLA
Jay Wohlschlager, ASLA
Felipe DeNarvaez, ASLA
Save the Date!
October 27-29, 2014
Saint Louis, Missouri

Join us for presentations and discussions on the latest issues affecting levees and rivers:

1. Safety Program and Policies
2. Repair and Rehabilitation
3. Engineering and Design
4. Navigation and Environmental Concerns

Registration now open: www.celebratingourrivers2014.com

This event was first held in 2008 in the wake of disastrous levee failures in New Orleans, coupled with the subsequent announcement that FEMA would no longer automatically consider areas behind levees to be protected from 100-year flooding. Conceived by the members of the SAME St. Louis Post, the exchange is held every other year for the purpose of raising awareness of levees and flood risk.

With participation from the U.S. Army Corps of Engineers, FEMA, local levee districts, and the private sector, this has become the must-attend event for those involved in flood risk management.

For more information, visit: www.celebratingourrivers2014.com

Jointly sponsored by:
Younger Member Group Presents

The 5th Annual

trivia night!

@ The Kirkwood Community Center, East Gym
111 S. Geyer Road, Kirkwood, MO 63122

Saturday November 22nd, 2014
7pm (Doors at 6:30pm)

$150/Table of 8
($25/person for incomplete tables)

Raffle Prizes
50/50

Gift Prizes
Games

BYOB
Complimentary Soda/Water

OPEN TO EVERYONE
(no engineering questions, we promise!)

RSVP or Questions to:
Steven Resnick
314-432-8600
steven.resnick@alperaudi.com

The American Society of Civil Engineers (ASCE) Younger Members group fundraiser proceeds benefit the ASCE Younger Member St. Louis section, and provides the means to help grow our community.
Making Better Megawatts, Mousetraps, and Medicine – The Drive for Innovation at SIU

Southern Illinois University Edwardsville (SIUE) is hosting an SIU system-wide Innovation Expo on Tuesday, **September 23, 2014**. The free event supports long-term, sustainable innovation in collaboration with regional business and industry – from idea generation to partnership and commercialization.

The event includes an invitation-only luncheon for select faculty innovators and industry representatives followed at 1:30 by a public keynote presentation by Dr. George Vermont and a networking session with refreshments. **Dr. George Vermont has 32 years of experience working in industry; he currently works for the National Science Foundation Small Business Innovative Research (SBIR) Program.** For the last 9 years he has interviewed over 2500 small business recipients of SBIR awards in an attempt to validate the effectiveness of the SBIR program. In his presentation, he will highlight some of the findings from the study.

Following the presentation, a networking session will feature kiosks displaying faculty research, allowing industry representatives to learn what SIU researchers have to offer and to discuss potential matches to their needs and ideas. The featured work ranges from alternative energy and antibiotics to medical devices and gene therapy.

The event will be held in the SIUE Morris University Center Conference Center. Sponsors include the Illinois Manufacturing Excellence Center, University Park at SIUE, SIUE Small Business Development Center, Husch Blackwell, and Polsinelli. For a complete list of participants and registration information, visit [http://tie.siu.edu/](http://tie.siu.edu/). If you are interested in participating in the luncheon, contact the SIU Edwardsville Small Business Development Center at 618-650-2929 or sbcedw@gmail.com.
Numerical Modeling in Geotechnical Engineering

Fall Workshop, October 2014
Up to 12 PDH Credits

DATE
October 17, 2014 - 9 AM to 12 PM
October 17, 2014 - 2 PM to 5 PM
October 18, 2014 - 9 AM to 12 PM
October 18, 2014 - 2 PM to 5 PM

VENUE
Location: Southern Illinois University Edwardsville, Edwardsville, IL
Room: TBD

CONTACT
Phone: 618-334-4572
Fax: 618-650-2555
Email: zamiran@siu.edu

WORKSHOP OBJECTIVES
The main subject of the workshop is the use of the numerical modeling in different geotechnical engineering topics. The computer exercises are performed with the FLAC code which is a prominent program for several geotechnical and mining purposes. During this workshop the following topics are going to be considered:

- Introduction to numerical modeling, finite difference method and the basic functionality of FLAC
- Finite difference modeling and basic topics of computational geotechnical engineering including geometry modeling, constitutive models, boundary conditions, solving and monitoring process
- Numerical modeling of shallow and deep foundations
- Numerical modeling of excavation and slope stability problems
- Seismic considerations in numerical modeling

The event is free. Please register here:
www.goo.gl/Z6X58Q
Call for Abstracts!
November 7, 2014
St. Charles Convention Center
St. Charles, Missouri

Save the Date
The St. Louis Chapter of the Geo-Institute is pleased to announce the date for the fourth 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 7, 2014.

Call for Abstracts
The conference planning committee is seeking six to eight 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 14, 2014. 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 15, 2014. The submitted abstracts and presentation slides will be assembled and included in the conference publication.
57th ANNUAL MISSOURI S&T ASPHALT CONFERENCE
December 9-10, 2014

The 57th Annual Missouri S&T Asphalt Conference will be held on Tuesday and Wednesday, December 9-10, 2014 at the Missouri University of Science & Technology.


The conference should be of interest to contractors, public agencies, consulting engineers, testing labs, aggregate producers, asphalt binder suppliers, and equipment technical reps.

For conference program information contact Dr. Dave Richardson, Conference Director (573-341-4487; richardd@mst.edu) and for registration information contact Distance and Continuing Education, Room 216 Centennial Hall, Missouri S&T, Rolla, MO, 65409-1560, (573-341-6222; dce@mst.edu).
**Employment**

**Shannon & Wilson is looking for an Entry-Level Geotechnical Engineer (SWSTL14_01) in their Saint Louis office**

Responsibilities Include:

- Perform geotechnical engineering and geological analyses and calculations.
- Prepare and write engineering and other reports.
- Perform field explorations and studies and collect samples.
- Assist with construction observation, testing, and documentation.
- Perform geotechnical lab testing as needed.
- Interact and communicate with clients, vendors, and staff at all levels.
- Assist with marketing activities including preparation of cost proposals.
- Follow and promote Shannon and Wilson’s health and safety and loss prevention procedures and policies.
- Other duties as assigned by your supervisor.

Requirements Include:

- MS Degree in Geotechnical Engineering (or Geological Engineering), supported by a BS Degree in Civil Engineering (Geotechnical Engineering specialty).
- 0-3 years of experience in Geotechnical Engineering or related field. FE/EIT Certification, preferred.
- Excellent writing, organizational, and communication skills required to effectively interact with clients, vendors, and staff at all levels.
- Must be personable, flexible, and easy going.
- Must be able to work independently with minimal supervision.
- Must be willing and able to travel to support the needs of other S&W offices.
- Must have and maintain a valid driver license and insurable driving record.
- Basic computer skills: MS Word, Excel, required; MS Access, ArcView, AutoCAD GeoStudio, LPILE, desirable.
- Preference given to those with significant experience and capability with Arc/GIS software.
- This position requires critical thinking and analysis; frequent sitting, standing, walking, bending, and lifting and carrying 30+ pounds; working in all weather conditions; field visits per project needs; ability to travel to other S&W offices; and ability to drive (or fly) to and from job sites locally and out of state.

Shannon & Wilson is an equal opportunity employer. Minorities, women, veterans, and individuals with disabilities are encouraged to apply. We also maintain a drug-free workplace and perform drug testing.

Apply on line at: [http://www.shannonwilson.com/careers/applications](http://www.shannonwilson.com/careers/applications)
FDH Incorporated: EIS Field Structural Engineers - Raleigh, NC and St. Louis, MO

FDH has immediate openings for Field Structural Engineers with our Engineering Investigative Services (EIS) group based out of Raleigh, NC and St. Louis, MO. These positions will serve as part of a field project team conducting specialized non-destructive testing and structural inspection in support of a wide variety of engineering activities for civil and industrial infrastructure including telecommunication towers, bridges, dams, residential and commercial buildings and heavy industrial structures.

Civil, Mechanical, Structural and similar engineering disciplines are preferred.

TRAVEL DEMANDS AND WORK ROTATION:

- Field Engineers travel nationwide as a member of a two or three person team conducting on-site investigations of all types of structures.
- Trips are scheduled for ten days in the field followed by four days off.
- While travelling, FDH provides individual hotel rooms, all equipment and $41 per day per diem.
- After approximately six months in role, Field Engineers shift from full-time field work to a rotating schedule that consisting of two field rotations (10 days on, 4 days off) followed by a five day office week to provide opportunities for enhanced professional development.

PHYSICAL REQUIREMENTS:

- Field Engineers must be physically prepared for the demands of working outside year-round in the elements (e.g. heat, cold, wind, rain and snow).
- Field Engineers also require a high degree of physical fitness in order to dig on or around structural foundations and after training and certification, to be able to climb large tower structures for work at height.
- You must be able to lift 50+ pounds, have the ability to climb efficiently and must be comfortable working in excess of 200 feet off the ground.

TRAINING AND SAFETY INFORMATION:

- Students will participate in a paid four week training program during their onboarding period.
- FDH’s training program includes two weeks of classroom work for climbing safety and proficiency training and two weeks assigned to an operational team for practical skills and on-the-job training to complete qualifications and upon completion, are assigned to a team as an operating Field Engineer.
- Candidates must be insurable as a driver for FDH company vehicles (No DUI's or suspensions within the last 5 years, no more than 2 traffic violations (3pts. max each) in the past 3 years)

Please contact Dan Eddinger at deddinger@fdh-inc.com for further information and to begin the application process.
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

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).