

December 2016

**In This Issue**

President's Message ..... 2  
Administration  
Openings ..... 3  
Diversity and Inclusion  
Committee..... 4  
Younger Members  
Group ..... 5  
EWRI..... 7  
Geo-Institute ..... 8  
Professional  
Development ..... 10  
Employment ..... 11

**Upcoming Events**

- December 5**  
GI MSE Wall Webinar
- December 10**  
YMG Operation Food Search
- December 12**  
ASCE Holiday Social
- December 13**  
YMG Meeting
- December 14-15**  
Trenchless Technology Seminar
- 2017**
- January 10**  
ASCE-SAME Luncheon
- February 17**  
Trivia Night
- February 23**  
Introduce a Girl to Engineering Day



**Announcing the  
2016 ASCE Holiday Social  
Monday December 12, 2016**

Members are cordially invited to our Holiday Social; we welcome you to kick off the holiday season with fellowship, food and spirits.

- Location:** Missouri Botanical Garden  
The Kemper Center  
4344 Shaw Blvd.,  
St. Louis, MO 63110
- Time:** Appetizers from 6 pm to 8 pm  
Cash Bar
- Cost:** \$12.00/per person for Garden Glow Tickets (required for entry into Garden and Social)
- Parking:** Self parking - Free
- RSVP:** Reservations must be received no later than close of business **Monday, December 5, 2016.**  
Please RSVP online at <https://goo.gl/DAiOce> or send email to Bill Goldkamp at [wgoldkamp@abnacorp.com](mailto:wgoldkamp@abnacorp.com)

## Officers & Directors 2016 - 2017

### President

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### Director of Administration

John Weiland

### Director of Professional Development

Alison Graves

### Director of Technical Development

Chris Toenjjes

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Michael Buechter



## President's Message

*Matt Harper*

Happy Thanksgiving to everyone, and I hope everyone had a good start to the holiday season. If you ventured out to take part in the Black Friday shopping experience, I commend you and hope it was safe and successful. Around Thanksgiving and the holiday season, I enjoy spending time with family and friends, and I get a chance to reflect on the things I am thankful for. I am thankful for my family, friends, and opportunities we are provided living in America.

I am also thankful to be a Civil Engineer and a member of ASCE and the opportunities both provide me. As a Civil Engineer, I am thankful my profession can have such an impact on the day to day lives of the general public. Whether it be drinking water, sanitary sewer, buildings, roads and bridges, or storm water, what we do as Civil Engineers impacts many people's lives. I am thankful to be a member of ASCE and the President of the St. Louis Section. Having the opportunity to lead such a successful organization with such a great history is an honor for which I am truly thankful.

November was another busy month for the St. Louis Section. The Younger Members Group had their monthly meeting at the Urban Chestnut in the Grove. They also joined the St. Louis University Student Chapter for a tour of the MSD Grand Glaize Wastewater Treatment Facility. I want to thank Melissa Marks and the other younger members for the continued success of our Younger Members Group.

The Geo-Institute and Structural Engineering Institute hosted their annual Geo-Structures Confluence at the St. Charles Convention Center. This daylong seminar included many topics from jet grouting to the Wrigley Field project. I want to thank the Geo-Institute and the SEI for their hard work in organizing another successful event. The St. Louis Section of EWRI also continued their successful webinar series with their tenth webinar jointly sponsored by Missouri University of Science and Technology.

I would like to remind everyone the St. Louis Section will be hosting our Annual Holiday Social on Monday, December 12th, at The Kemper Center at the Missouri Botanical Gardens. Come meet and socialize with fellow ASCE members and experience the Garden Glow. Please RSVP online at <https://goo.gl/DAiOce> or by email to Bill Goldkamp at [wgoldkamp@abnacorp.com](mailto:wgoldkamp@abnacorp.com).

I want end my message reminding each of us to be thankful for all of our blessings this holiday season, and I hope each of you have a safe holiday season with your family and friends.

Sincerely,

Matt Harper, P.E.

## Administration Openings

**ASCE St. Louis Section is seeking dedicated members to open chair committees as briefly described below, with the opportunity that the incoming chair will “make it their own.”**

**Newsletter Editor** – The Newsletter Editor will be responsible for producing and publishing the ASCE St. Louis Section monthly newsletter and mid-monthly updates, distributed electronically via email to Section membership. The Newsletter includes announcements regarding activities of the Section and furnishing news, both professional and personal, of special interest to the members. The Editor’s primary goal is to communicate to all local members news of past, present, and future activities and programs for the purpose of stimulating greater interest and participation in Section affairs.

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

**Public Information Coordinator** – The Coordinator will be responsible for increasing public awareness of ASCE and civil engineering within the local community and to gain recognition of the Section within the Society. The Coordinator will organize press releases to local publications regarding special activities and local and national awards, as well as articles to highlight Section activities for ASCE publications. Please contact John Weiland ([jweiland@wadetrim.com](mailto:jweiland@wadetrim.com)) to further discuss the details of operating one of our Administrative committees.

### **ASCE St. Louis Section Department of Professional Development Openings**

**Continuing Education/Attendance Committee** – The Committee will be responsible for greeting members and guests at general membership meetings, collecting event fees, documenting attendance, providing PDH certificates to attendees as appropriate, and notifying the president of any unanticipated dignitaries at the events. Please contact Alison Graves ([alison.graves@jacobs.com](mailto:alison.graves@jacobs.com)) to further discuss the details of operating one of our Professional Development committees.

## Diversity and Inclusion Committee

### MARK YOUR CALENDAR! VOLUNTEERS NEEDED...



The Section's Diversity & Inclusion Committee has an ongoing relationship with the Girl Scouts, and is continuing this partnership to introduce young girls to the wonderful world of engineering. Volunteers are needed to participate at the Girl Scout's Introduce A Girl to Engineering Day on February 23<sup>rd</sup>. Volunteers are needed to facilitate engineering activities and/or assist with activities. If you are interested in volunteering, please sign up with Melantha Norton at [mnorton@stlmsd.com](mailto:mnorton@stlmsd.com) or 314-335-2086.

#### Introduce a Girl to Engineering Day

February 23, 2017, 6:00 - 8:00 pm

Berges Family Girl Scout Program Center, 2300 Ball Drive, St. Louis, MO 63146

This event is open to 60 girls in grades 2-3 (Brownies). Celebrate with Girl Scouts, as they are challenged to innovate, design, build, and test as engineers. The activities are focused on the book, Rosie Revere, Engineer and each girl will get her own book to take home.

#### Membership Renewals

It is time for membership renewals... **Please be sure to include your gender, date of birth, ethnicity, etc. on your annual renewal form this year.** Gathering this information on ASCE members is important for developing and implementing diversity and inclusion programming on the national and local level. Knowing these demographics of the membership helps move these efforts forward. ASCE recognizes the strategic and critical importance of advocating for and sustaining a diverse workforce and inclusive work environment. The Society is committed to implementing policies and programs designed to advance the profession by promoting an inclusive climate in the profession.

#### Reciprocal Memberships

#### **DID YOU KNOW THAT ASCE MEMBERS CAN BECOME A NSBE MEMBER FOR FREE?!?**

ASCE and National Society of Black Engineers (NSBE) are offering reciprocal dues discounts. This reciprocal membership is a great opportunity to enhance your career and broaden your professional network. ASCE members joining NSBE for the first time can do so for **free** through the ASCE website. The National Society of Black Engineers (NSBE), with more than 35,700 members, includes more than 394 College, Pre-College, and Technical Professional/Alumni chapters in the United States and abroad. NSBE's mission is "to increase the number of culturally responsible black engineers who excel academically, succeed professionally, and positively impact the community."

For ASCE members, student membership to NSBE is free; dues for professional membership is free the first year and \$25 (half price) for all subsequent years.

Getting your reciprocal membership is easy! Here are the steps on how to join NSBE and get your discount:

1. [Join](#) or [renew](#) your ASCE membership.
2. Follow the *Affiliate Organizations* link provided on the confirmation page.
3. From there, you can follow the link to join NSBE and receive your discount.

If you have already paid your dues, and would still like to join NSBE, contact ASCE Customer Service Department for directions at (800) 548-ASCE (2723). You can also find more information online at: <http://www.asce.org/nsbe-membership/>

## Younger Members Group

### *Join us for happy hour!*

Thank you to all our members who came out to our November meeting at Urban Chestnut! Come join the next monthly meeting with our St. Louis YMG! The meeting will be held on December from 6:00 to 8:00 pm at Hotshots Sports Bar and Grill.

**December YMG Meeting:**  
**Tuesday, December 13, 2016**  
**Hotshots Sports Bar & Grill**  
1319 Central Park Dr., 62269  
**6:00 PM to 8:00 PM**



### *Operation Food Search*

Our YMG is giving back this holiday season. Join us on **Saturday, December 10<sup>th</sup> at 8:00 am** as we volunteer with Operation Food Search, a volunteer based organization that focuses on providing meals to those affected by HIV/AIDS or cancer. Please contact Melissa Marks at [Melissa.Marks@ch2m.com](mailto:Melissa.Marks@ch2m.com) if you are interested in participating.

**Saturday, December 10, 2016**

Operation Food Search

3117 Olive Street, 63103

**Starting at 8:00 AM**

### *Future City Competition*



The ASCE YMG is in the process of starting a committee to host a Future City Competition for the St. Louis Region in 2018 and we need you! Future City is a competition for 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade students to imagine, design, and research solutions to a citywide sustainability issue. We are looking for people who are interested in participating as a committee member for planning the competition. Please contact Melissa Marks at [Melissa.Marks@ch2m.com](mailto:Melissa.Marks@ch2m.com) if you are

interested in joining our committee. More information about Future City and the competition can be found at <http://futurecity.org/about>.

Check out the [YMG website](#) and [Facebook page](#) for more events and meetings throughout the year!

**FRIDAY, FEBRUARY 17, 2017**

**DOORS OPEN 6:30 FOR 7PM START!**

**KIRKWOOD COMMUNITY CENTER  
111 S Geyer Rd Kirkwood MO 63122**

**Hosted  
by:**

**ASCE**

AMERICAN SOCIETY OF CIVIL ENGINEERS  
ST. LOUIS YOUNGER MEMBER GROUP

# TRIVIA NIGHT

All proceeds help fund ASCE St. Louis Younger Member Group  
Activities: Operation Food Search, Rebuilding Together, and more!



**FOR MORE INFO:**

**Brandi Jones  
(618) 691-4951  
Brandi.Jones91@gmail.com**



## *EWRI St. Louis News*



### **EWRI St. Louis Monthly Speaker Series Event**

The St. Louis Section of EWRI is pleased to announce our eleventh webinar **jointly sponsored by Missouri University of Science and Technology on Thursday, December 15, 2016 at 11:30 am-12:30 pm.**

This presentation will be broadcast live over a webinar. Registration is free for in-person (at USGS in Rolla) or webinar attendance. **Advance registration is required by noon on Tuesday, December 13, 2016** Please register online in advance at the following link:

[https://docs.google.com/forms/d/e/1FAIpQLScnmbclzVrUMiqLu2ms0hRgZgH\\_0eF4bZtBi0d8WHk4xfuDcQ/viewform?usp=send\\_form](https://docs.google.com/forms/d/e/1FAIpQLScnmbclzVrUMiqLu2ms0hRgZgH_0eF4bZtBi0d8WHk4xfuDcQ/viewform?usp=send_form)

Registrants will receive detailed login & dial-in information or directions for in-person attendance prior to the event.

### **Use of Remote Sensing to Monitor Suspended Sediment Concentrations in the Middle Mississippi River**

Suspended sediment concentration (SSC) and suspended sediment load (SSL) along the Middle-Mississippi River (MMR) and its tributaries are of significant interest to researchers, engineers, scientists, and water resources managers as sediment erosion, deposition, and transport are fundamental to its geomorphic and ecological condition. Due to the importance of understanding the local sediment budget of the MMR, considerable state and federal funds have been spent to continuously monitor and characterize the spatial and temporal variability of SSC and SSL within the region. A network of continuous monitoring stations along the Mississippi River and its tributaries supply publically-available measurements of SSC, SSL and turbidity that have been used to quantify regional and basin-wide sediment transport. Currently, there are 14 gauges that monitor water quality parameters along five rivers that flow into the MMR in the states of Missouri and Illinois. Recent advancements of remote sensing technology have led to capabilities to characterize surficial SSC in fluvial environments that can be used to supplement the data gaps in many SSC and SSL time-series at monitoring stations in the region.

#### **Speaker:**

**Amanda Cox, PhD, P.E.** is an Assistant Professor in the Civil Engineering Department at Saint Louis University (SLU). She joined SLU in 2013 and her areas of research include surface-water hydraulics, urban drainage, erosion and sedimentation, hydraulic structures, river engineering, stream restoration, and stormwater erosion. She is currently conducting research in the areas of particle incipient motion, fluvial geomorphology forecasting, and remote-sensing methods for estimating suspended sediment concentration. Prior to joining SLU, she was a Research Scientist and Laboratory Manager at the Colorado State University (CSU) Hydraulics Laboratory where she completed several research projects primarily focused in the broad area of hydraulic modeling. Dr. Cox received her BS degree in Civil Engineering from the University of Missouri – Columbia, and she received her MS degree and PhD degree in Civil Engineering from CSU specializing in Hydraulic Engineering.

Thank you to our joint seminar sponsor, **Missouri University of Science and Technology!**

Please contact Robert Holmes ([bholmes@usgs.gov](mailto:bholmes@usgs.gov)) with any questions, if you are interested in presenting, or have an idea for a topic.



## Geo-Institute of ASCE – St. Louis Chapter

Presents a NEW webinar titled

# Details for Mechanically Stabilized Earth (MSE) Walls: Good Practices

**DATE AND TIME:** Monday, December 5, 2016

Doors open at 10:00AM for registration  
Live webinar from 10:30AM to 12:00PM  
Pizza and soda/water will be provided.

**LOCATION:** Geotechnology, 11816 Lackland Road, Suite 150, St. Louis, MO 63146

**COST:** \$10.00 per person

**PDH:** Attendees will earn 1.5 PDH

**RSVP:** *Please register by Thursday, December 1 at*

<http://events.constantcontact.com/register/event?llr=yonzmehab&oeidk=a07edchw3si6d67fec0>

Payment can be made by check or credit card.

Primary discussion topics include top of wall elements such as copings, traffic barriers and geomembrane caps; bottom of wall elements such as leveling pads; drainage features such as filters, drains and pipes; internal elements such as obstructions in reinforced soil mass and slip joints; wall initiations and terminations; and aesthetics. This webinar discusses typical good practice details.

If you've signed up and can't make it, please cancel with Jake Schaeffer ([jschaeffer@tsigeotech.com](mailto:jschaeffer@tsigeotech.com) or 314-373-4013) by Thursday, December 1 or we will have to charge you for the meal.



## First GeoConfluence Research Scholarship Awarded

The St. Louis chapter of the Geo-Institute of ASCE awarded the first **GeoConfluence Research Scholarship 2016**. The scholarship utilizes the funds generated from the chapter's annual GeoConfluence event to promote geotechnical/geoenvironmental research at Midwestern universities that would benefit the local state of practice.

The 2016 scholarship was awarded to **Siavash Zamiran** from Southern Illinois University Edwardsville and **Sandeep Goud Burra** from Southern Illinois University Carbondale.



In the picture from left to right: Siavash Zamiran (PhD Student at SIUE), Pravin Jha (Chairman of the subcommittee), Kord Wissmann (President of Geo-Institute) and Sandeep Goud Burra (PhD student at SIUC).

## Professional Development

**THE MIDWEST SOCIETY FOR TRENCHLESS TECHNOLOGY (MSTT)  
(A Non-Profit Corp.)**

**AND**

**ASCE ST. LOUIS SECTION**

**Wish to Announce!**

### **The Trenchless Technology Seminar**

#### **"TRENCHLESS TECHNOLOGY, SSES AND BURIED ASSET MANAGEMENT"**

**GUEST PRESENTER:** Mr. Allen Muehlher, P.E., St. Louis MSD Program Manager, Construction Division, with the presentation "Trenchless Technology – A Critical Component of the MSD Capital Construction Program",

**DATE:** Wednesday & Thursday, December 14th and 15th, 2016. Please post this date on your calendar and plan to attend.

**VENUE AND HOTEL ROOM COST:** Seminar will be held downtown at the St. Louis Union Station Hotel. Rooms will be available early next week at \$99 per night.

**SEMINAR COST:** \$260 per attendee person includes seminar, program materials, all day refreshments, breakfast pastries, lunches, social hour and demonstrations. \$220 each for two or more attendees from same company or organization and includes all of the above. ASCE members and NASTT members have a special fee of \$200 each when requested. Exhibit tables cost \$650 for NASTT Members and \$750 for NON Members and this includes one person to attend. Food Sponsorships cost \$600 for NASTT Members and \$700 for NON Members and this includes one person to attend. These fees include the PDHs, certificates, food, classroom, exhibit hall and social hour. Extra Exhibitors or Extra Food Sponsor persons cost \$125 each to cover the food cost and get the same as above. Limited scholarships for Municipal people are available upon request by contacting Leonard Ingram at (337) 327-7007. Registration fees are refunded if for any reason you cannot attend.

***ASCE has complimentary registrations available to the first three members to call Darlene at (888) 817-3788.***

**PDH CREDITS:** Seminar Completion offers a Certificate and Professional Development Hours of Continuing Education Credit. Number of PDHs will be determined once the program is finalized.

**CASH DRAWING:** Drawing for Two One Hundred Dollar Bills - attendees only and they must be present.

**TO REGISTER:** On line registration for Presenters, Exhibitors, Food Sponsors or Attendees will be available at [www.mstt.org](http://www.mstt.org) later this week or call Leonard Ingram at Toll Free (888) 817-3788 or email [leonard@engconco.com](mailto:leonard@engconco.com) if you are interested in participating. Invoice billing or credit card payment available.

**SEMINAR PRESENTATIONS WILL DISCUSS A WIDE VARIETY OF TRENCHLESS TECHNOLOGY ITEMS INCLUDING MOST OF THE FOLLOWING SUBJECTS AND MORE:**

Overview Of Trenchless Technology And NASTT Education Efforts, "Liquid Assets" Video, Sewer Line Rehabilitation, Water Line Rehabilitation, Manhole Rehabilitation, Cured In Place Pipe Renewal (CIPP), Root Control, Point Repair, Collector System Evaluation, TV Inspection, Internal Joint Seals, Thermoformed PVC Pipelining, Clay Pipe Microtunneling, Pilot Tube Microtunneling, Horizontal Directional Drilling (HDD), Pipe Bursting, Underground Structure Rehab, Bypass Pumping, Chemical Grouting, Lateral Lining, Lateral Replacement and the Trenchless Technology Center. Also presented will be the Buried Asset Management Institute-International (BAMI-I) Certification in Training of Asset Management" (CTAM) Program.

**THIS SEMINAR** will be similar to the seminar held in Detroit in July. Please go to [www.mstt.org/last\\_seminar.html](http://www.mstt.org/last_seminar.html) to view that program and News Release.

**THANKS FOR YOUR SUPPORT!**

## Employment

### Engineer II - Bridge Design

The time is right to join HNTB Corporation! HNTB Corporation is currently seeking an Engineer II-Bridge Design in our St. Louis, MO office.

Develops plans, specifications, and inspection reports as needed on assigned tasks to see that these items are complete, accurate, and in accordance with good engineering practice. Is technically involved in the resolution of design problems that may include performing field investigation or inspections, detailed design work, and detailed checking of design computations done by others, or general coordination of specific design aspects into a project.

Responsibilities:

- Develop plans, specifications and reports.
- Calculate quantity estimates.
- May occasionally supervise and schedule work of other team members.
- Work closely with other disciplines on multi-discipline projects.
- Has limited client contact at staff level.

Basic Qualifications:

- Bachelors degree in Engineering plus 2 years of experience required.
- EI preferred.
- 2 years of bridge design experience preferred.

Environment and Physical Requirements: Work is generally performed in an office environment in which there is only minimal exposure to unpleasant and/or hazardous working conditions. Candidate must have the ability to stand and sit frequently throughout an eight-hour period, reach vertically for overhead use as well as horizontally. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The HNTB Companies are an equal opportunity employer and does not discriminate on the basis of age, race, gender, religion, color, sex, national origin, marital status, genetic information, sexual orientation, pregnancy status, physical or mental disability, veteran status or other status protected by law. In compliance with the Immigration Reform and Control Act of 1986, we will hire only U.S. citizens and aliens lawfully authorized to work in the United States (if the position is or will be one which is subject to U.S. law). We will provide reasonable accommodation for qualified individual with a disability where appropriate.

Apply here: <https://careers-hntb.icims.com/jobs/14524/engineer-ii---bridge-design/job>

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### Fundamentals of Engineering (FE) Refresher Course Instructor Wanted for Mechanical Engineering

Description: A Mechanical Engineer w/PE is being sought to help facilitate the mechanical engineering section of an FE Review Course for the Spring 2017 semester at Washington University. The instructor will receive past notes, quizzes, text book, and syllabus to help with his/her efforts. The course runs 8-10 PM on Wednesdays and commitment will be approx. 8 weeks. The position has recently become vacant and we are in an immediate need to fill the spot. This is a great opportunity to work with engineering students, get paid and put your PE to good use while not taking time from other activities.

Note: The FE Refresher Course is led by the St. Louis Chapter of NSPE and supports Dr. O'Sullivan, Dean of the UMSL/WUSTL Joint Undergraduate Engineering Program, at Washington University in its implementation.

Please contact the following if interested or with questions:

Bob Becnel, Email: [bob@becnel.com](mailto:bob@becnel.com), Phone: 314-941-7641

**To submit items to the newsletter...**

*Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20<sup>th</sup> of the month prior to publication. Items may be sent via e-mail to Brent Vaughn (interim newsletter editor) at [bvaughn@members.asce.org](mailto:bvaughn@members.asce.org). 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](http://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](mailto:JESmith@HNTB.com) or via feedback directly from our website.*

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

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

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



**ASCE – St. Louis Section  
c/o The Engineering Center  
4359 Lindell Blvd. St. Louis, MO 63108**