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Website:

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The Southeast Branch News is published monthly by the Southeast Branch of the Wisconsin Section of ASCE. Change of street and/or e-mail address should be sent to ASCE, 1801 Alexander Bell Drive, Reston VA 20191 (800/548-ASCE). You may update your own information at the Members Only page of WWW.ASCE.ORG

The deadline for articles for the next newsletter is the first of the month.

PRESIDENT'S MESSAGE

Greetings,

Winter weather is finally here in Wisconsin in which we are reminded of the precautions to take before leaving your home (i.e., never run a vehicle in an enclosed area (such as a garage), make certain your tires are properly inflated, keep your gas tank at least half full [Source: AAA]). Another precaution we need to take is ensuring our road system doesn't get any worse than it already is. Unless you recently moved to Wisconsin, you know that winter conditions worsen our roads. Lately in the media, there are talks that our roads are to continue to worsen and our road debt is going to increase. Our state and federal governments are unable to come to an agreement on how to improve our road conditions without adding more debt or taxes. ASCE is working hard behind the scenes to try to get our lawmakers to move forward with a plan. One way you can help ASCE with this is by becoming a Key Contact. For more information on this opportunity, please visit ASCE's website at the link provided (<http://www.asce.org/keycontacts/>).

This year, our STEM Forward joint December meeting will be pushed to January due to scheduling conflicts. The meeting will be on January 12 at the Grohman Tower at MSOE and will have Carl Sutter (ASCE Region 3 Governor) presenting on *Infrastructure Need to Act*. A great topic to have as Wisconsin is dealing with road condition issues.

As we move into the Holiday Season, I hope everyone is able to celebrate with friends and families. If you are able to, please also consider those who are less fortunate. There are plenty of opportunities to help those in need whether through food banks, kitchens, local churches, or other opportunities you may be aware of.

Happy Holidays and Stay Safe!

Ken

ASCE Key Contact Program

Article By: Nick Bobinski

Are you interested in influencing public policy as it relates to Civil Engineering? Consider becoming a Key Contact in ASCE. Learn more about the program at www.asce.org/keycontacts/

Southeast Branch seeks volunteer to serve on Budget & Finance Committee

Article By: Larry Buechel

The Wisconsin Southeast Branch (Branch) is looking for a current branch member to serve on the Budget and Finance Committee (Committee).

The Committee meets twice a year to perform to review the financials of the Branch, including an audit and budget proposal. Committee membership runs concurrent with the Branch's annual fiscal year – October 1 to September 30.

Branch members interested in serving on the Committee should contact Committee Chairperson Alan Rentmeester (atr@spireengineer.com) or Branch Treasurer Ryan English (renghlish@whyterra.com) for more details.



Renew your ASCE membership

Article By: ASCE National

As an existing ASCE member you understand that the Society is providing needed support to both the civil engineering profession as well as the general public. ASCE stands at the forefront of a profession that plans, designs, constructs, and operates society's economic and social engine – the built environment – while protecting and restoring the natural environment.

Much of the Society's work focuses on public safety and education. Through the expertise of its active membership, ASCE is a leading provider of technical and professional conferences and continuing education, the world's largest publisher of civil engineering content, and an authoritative source for codes and standards that protect the public.

As the voice of the collaborative efforts of more than 150,000 passionate and committed civil engineering professionals our mission is clear: **To protect the health, safety, and welfare of the public's future by continuing to advance the profession.**

Continue your support of ASCE, civil engineering, and public safety by renewing your membership.

Renew at:

<https://secure.asce.org/ASCEWebsite/SECURE/SignIn/SignIn.aspx?ASCEUrl=/ASCEWebsite/Secure/MembershipRenewal/MembershipRenewal.aspx>

Prefer to renew by phone? ASCE's Customer Service is available at **(800) 548-ASCE (2723)** between 9:00 a.m. – 6:00 p.m., E.T., Monday to Friday.

Volunteer opportunity for Engineering Career Day at Victory School

Victory School on Milwaukee's south side is hosting an "Engineer Career Day" on **Tuesday January 26th**. They are looking for a Civil Engineer or team to speak generally (i.e. what engineering is, how he/she decided on it as a career, sample projects, how students should prepare, etc.). There will be four ½ hour presentations with the students rotating to the room, a projector will be available for PowerPoint.

Engineering Career Day**9:30 AM – 11:30 AM**

Victory School (K-8)
2222 W Henry Ave
Milwaukee WI 53221

If you are interested contact Rich Merkel, Executive Director of STEM Forward at 414-810-7836.

YMG News

Future Cities - Judges Needed!

Article By: Pat Flaherty

The Milwaukee area Future Cities competition hosted by STEMForward is coming up fast! This year's competition will once again be hosted at the MSOE Kern Center on Saturday, January 21st; judges will be needed both before and during the competition. Opportunities to help judge this year's competition and their respective scopes are as follows:



- SimCity Model Judges: Attend a judging session at MATC to review teams' Future City SimCity models; 12/12 and 12/13/16 4:30PM - 7:00PM
- Essay Judges (Essay Topic: Public Spaces): Review and score teams' 1,500 word essays online at your leisure in the given timeframe; 12/21/16 - 1/13/17
- Model/Presentation Judges: Sit on a panel of judges on the day-of competition and score teams' presentations and models; 1/21/17 7:45AM - 1:00PM
- Special Awards Judges: Help ASCE WISE Branch and YMG judge for their sponsored awards (Best Model and Best Use of Recreational Space) 1/21/17 8:15AM - 1:00PM

The YMG has been more than happy participate in this awesome event year after year; and we're always interested in getting new people involved! If you are interested in helping out with any of the above judging opportunities; contact Pat Flaherty at patrickf@rileycon.com. Special thanks goes out to all those who continue to make this event a reality!

YMG News (cont'd.)

GLSC Concrete Canoe - Judges Needed!

Article By: Brett Kash

MSOE is looking for two Concrete Canoe assistant judges. The competition will take place at Juneau Park Lagoon for the races and on MSOE's campus for the presentations. Judges would need to be available a majority of the day on March 31 and April 1. Times are to be determined. Experience with the canoe competition is preferred, but not required. Judges must be at least five years graduated from any university in the conference.

Anyone that is interested can contact Holly Denfeld at MSOE, denfeldh@msoe.edu.

Santa Hat Bar Crawl

Article By: Dave Jaromin

The annual ASCE-YMG Santa Hat Bar Crawl was held this past Friday, December 2. A group of about 25 members crawled all over Brady street and good times were had by all. Local engineers got together, shared drinks and conversation, made new acquaintances and rekindled old friendships. If you missed out this year to show off your ugly sweater (or suit), join us next year around this same time.



2016 Wisconsin Section Annual Meeting Recap

The 2016 Wisconsin Section Annual Meeting was held on Friday, September 16 at the Grand Geneva Resort and Spa in Lake Geneva. The event was well attended with approximately 150 people in attendance. The morning session started with a presentation by Aaron Popkey, Director of Public Affairs of the Green Bay Packers, giving a presentation on the Titledown District Development Adjacent to Lambeau Field. Then attendees had a variety of technical topics to choose from for the technical sessions. Lunch was followed by Michael Mucha from Madison Metropolitan Sewerage District providing an update on the ASCE Grand Challenge which includes the goals to significantly enhance the performance and value of infrastructure projects over their life cycles by 2025 and to foster the optimization of infrastructure investments for society. The ASCE Wisconsin Section also presented annual awards for project and individual achievement.

2016 Project Achievement Award Recipients

- Category B - Projects with Construction Cost over \$2 Million and under \$10 Million – “Former Two Rivers MGP Site Time Critical Removal Plan” – Natural Resource Technology, Inc.
- Category C - Projects with Construction Cost over \$10 Million and under \$20 Million - “Sojourner Family Peace Center” - Harwood Engineering Consultants
- Category D - Projects with Construction Cost over \$20 Million - “I-794 Lake Freeway, Hoan Bridge” – GRAEF

2016 Individual Achievement Award Recipients

- 2016 Distinguished Service Award - Julie Hoppe, P.E., M.ASCE.
- 2016 Matthew Thomas Rynish Honorarium - Marissa Wildeck, E.I.T, A.M.ASCE.
- 2016 Wisconsin Young Civil Engineer Award - Justin Bilskemper, P.E., M.ASCE.
- 2016 Engineer in Consulting Practice – Richard Weber, P.E., M.ASCE.

Don't let your 5 FREE 2016 Professional Development hours go to waste...

Article By: Larry Buechel

Most ASCE members remain unaware of one of the greatest benefits of their membership - getting as many as 5 free PDHs that can be applied toward licensing requirements. Your membership entitles you to choose up to five ASCE On-Demand Webinars a year that can earn you free PDHs for each one you complete and pass! The offer expires at the end of each calendar year, so why not take an hour or two during the upcoming holiday season to take advantage of this great offer?



On-demand learning is a convenient and effective method for engineers to earn PDHs/CEUs and gain practical, real-world knowledge. ASCE's programs are developed by industry experts and available for a variety of technical areas, including Construction, Management/Ethics, Environmental, Geotechnical, Structural, and Transportation.

On Demand Webinar series can be accessed using the weblink below:

<https://secure.asce.org/ASCEWebsite/Benefits/Membership/FreeOnDemandWebinars.aspx>

Construction

- Construction Stormwater BMPs
- Best Practices for Crack Treatments for Asphalt Pavements
- Building Structures and Sustainability
- Critical Path Method

Management/Ethics

- Ethics for Engineers
- From Engineering to Entrepreneurship: How to Prepare For, Start and Manage Your Own Engineering Firm
- The Ethics of Leadership
- Engineering For a Sustainable Future

Environmental

- An Introduction to Sediment Transport Modeling Using HEC-RAS
- Analysis and Design of Veneer Cover Soils for Landfills and Related Waste Containment Systems
- Basics of UV Disinfection Wastewater Reuse
- Culvert Design for Fish Passage - Concepts and Fundamentals

Geotechnical

- An Overview of Geosynthetics and Their Major Applications
- Avoiding Failures of Retaining Walls
- Design and Rehabilitation of Foundations on Expansive Soils
- Estimation of Unsaturated Soil Properties

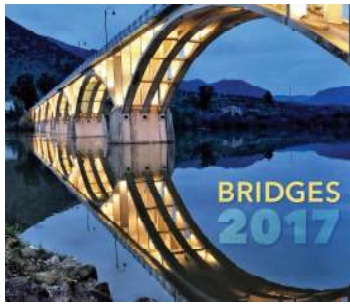
Structural

- Advanced Bridge Hydraulics with HEC-RAS
- Aging Infrastructure, Risks, and Making Tough Decisions
- Alternative Designs for Anchorage to Concrete
- Curtainwall Primer for Design Professionals

Transportation

- A Corridor Approach to Access Management
- Adaptive Traffic Control Systems as a Way to Measure Performance of Arterial Streets
- Analysis and Assessment of Roundabouts
- Application of Clear Zones for Roadway Departures

Bridges 2017 Calendar Available



Bridges 2017 is the must-have wall calendar for anyone who designs, builds, crosses, or simply loves bridges. Each month highlights a spectacular bridge with an awesome photograph and a thumbnail history highlighting the bridge's engineering significance. Plus, each month has a bonus bridge mini-photo. Chock-full of photos of bridges from the United States and around the world, this full-sized calendar is perfect for jotting down daily activities or appointments.

The *Bridges 2017* calendar celebrates the magical combination of technology and inspiration that is the hallmark of great engineering. These civil engineering masterpieces inspire photographers, too! Every photo in the calendar was selected from entries to ASCE's Bridges Photo Contest, and all winning photographers are identified.

Prices: \$12.95 (plus S&H) single calendar
 \$10.00 (plus S&H) 2 or more copies

For more information, and to order a calendar, visit the official website at <http://www.asce.org/templates/publications-book-detail.aspx?id=22384>

January



Tongjin Bridge

February



St. John's Bridge

March



Foresthill Bridge

April



San Francisco-Oakland Bay Bridge

May



Queensboro Bridge

June



Mike Gotch Memorial Bridge

July



Bixby Creek Bridge

August



Sant'Angelo Bridge

September



Triple Arches Bridge

October



Centennial Trail Walking Bridge

November



Roosevelt Bridge

December



State Street Bridge

Newsletter Publication

We welcome your articles, letters & news items for publication in the ASCE SE Branch Newsletter.

Advertisements and job postings are also accepted by contacting:

Brian Genduso, P.E. – 414.278.9200 – bjg@spireengineer.com

Deadline for next issue is the first of the month.

Job Postings

This is a paid advertisement, and is not affiliated with ASCE.



R.A. Smith National is a privately held company providing multi-disciplinary services to government and the land development industry. Our comprehensive services include civil engineering, surveying, construction services, structural engineering, ecological services, landscape architecture, irrigation design, water resource engineering, geographic information systems (GIS), visualization and 3D laser scanning. We work at sites nationwide with 7 offices in 4 states. We currently have the following two positions open:

Civil Engineer – Brookfield, WI

We currently have an opening for a Civil Engineer in the Land Development Division, working on a team to assist in the site civil design aspects of preparing land for development or redevelopment. The work will involve preparing site civil development plans, including site and paving plans, grading plans, erosion control plans, watermain plans, storm sewer plans, and sanitary sewer plans using AutoCAD Civil 3D and a variety of other engineering software. It will also include performing hydrologic and hydraulic calculations and preparing stormwater management plans as well as completing research and permitting processes for sites.

Successful candidates will have a Bachelor of Science degree in Civil Engineering and a minimum of 3 years progressive experience in land development design and civil engineering. Additional experience in the above mentioned areas is important. Proficiency with AutoCAD Civil 3D and hydrology and hydraulic software is also needed. Experience with Deltek Vision is preferred.

Project Engineer – Brookfield, WI (Civil Engineering)

We currently have an opening for a Project Engineer to design and manage the technical aspects of site design for projects that prepare land for development or redevelopment. Experience is needed in the areas of hydrology, site and paving plans, erosion control and grading plans, watermain and storm sewer plans. Day-to-day responsibilities include design for the above mentioned areas, preparing permit applications and submittals and researching potential development sites. This position also provides the opportunity to work directly with the client.

Successful candidates will have their P.E. and at least 10 years of progressive experience in land development design and civil engineering. Additional experience in the above mentioned areas is important. Proficiency with AutoCAD Civil 3D or a comparable software and hydrology and hydraulic software is needed. Experience with Deltek Vision is preferred.

At R.A. Smith we believe in a work/life balance and have been consistently named a Top Employer and a Best Firm to Work For by Zwieg White based on survey responses by our employees. Our firm is dedicated to finding quality candidates and we offer a competitive compensation plan and excellent benefit package which includes the following:

- Medical, Dental and Vision insurance, including a Health Savings Account option and Flexible Spending Account options
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- Tuition and Professional Licensure/Certification Reimbursement program

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