



# ASCE American Society of Civil Engineers

## WISCONSIN SECTION NEWSLETTER

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### August 2014 Newsletter

### PRESIDENT'S MESSAGE



It is hard to believe that almost a year has gone by and my tenure as your President is coming to a close. As you will find in this and three previous newsletters this year, many good things are occurring in the ASCE circle of life. It has been an honor to serve as your President this year and it is humbling to see all of the important work being done by the volunteers in our organization. I urge our membership to continue this tradition of excellent volunteerism in the name of our profession.

**UW-Platteville Sky's The Limit Outreach Program** – It is my pleasure to announce that UW-Platteville has received a \$2,000 State Public Affairs Grant (SPAG) from ASCE National in support of this outreach program. The program gives young women (grades 7 through 12) the opportunity to explore science, technology, engineering, and mathematics (STEM). The infrastructure-themed program helps to address a critical need in our nation to advance the civil engineering profession and educate the general public about the importance of infrastructure and its role in quality of life. Dr. Kristina Fields deserves a special thank you for her involvement in organizing this event that spanned three weekends in December 2013, March 2014, and April 2014, as well as for preparing the SPAG application.

**ASCE 2014 Region 3 Assembly (August 15 & 16, 2014)** – Bridget Henk will represent the WI Section at this meeting where several important topics will be debated. Of particular importance is the Infrastructure Initiative that is being spearheaded by Region 3 Director John Frauenhoffer (mustang2797@att.net). Building upon ASCE's Infrastructure Report Card for America's Infrastructure and Failure to Act Economic Studies, this initiative has the potential to impact legislative changes to infrastructure funding. Presently, the Infrastructure Initiative has white papers on Sustainable Transportation Funding Sources, Sustainable Water and Wastewater Funding Sources, and Sustainable Parks and Recreation Funding Sources. ASCE WI Section will be providing comments on these white papers with which Bridget use to can participate in the debate on the WI Section's behalf.

**STEM Expo** – Our ASCE Southeast Branch is at it again. Following up on a successful 2012 Science, Technology, Engineering, and Mathematics (STEM) Expo, the Southeast Branch is currently organizing an October 5, 2014 event at the Milwaukee School of Engineering (MSOE). These events are instrumental in revealing the STEM possibilities to our youth, which ultimately help to sustain our profession. Please contact Bridget Henk ([bridget.henk@graef-usa.com](mailto:bridget.henk@graef-usa.com)) or Kyle Bareither ([kbareither@naturalrt.com](mailto:kbareither@naturalrt.com)) for more information.

**Annual Meeting** – Please join us for the 2014 Annual Meeting on Thursday, September 4, 2014 at the Bridgewood Resort Hotel in Neenah. Please note that the Annual Meeting will be held on a Thursday, rather than our traditional Friday due to scheduling issues. The Fox Valley ASCE Branch Annual Meeting Planning Committee has assembled an excellent list of topics and speakers. Our program also includes presentation of project-based Engineering Achievement Awards and Individual Merit Awards. See you there.

Please contact me at [jon.lindert@strand.com](mailto:jon.lindert@strand.com) with any questions or concerns.

Enjoy the dog days of summer!

Jon H. Lindert, P.E., M.ASCE  
ASCE WI Section President



## **INVOLVEMENT OPPORTUNITY REQUEST**

If you have Involvement Opportunities (e.g. community service events or organization membership drives) for Wisconsin Section members that you would like displayed in the Wisconsin Section Newsletter, email Dan Borchardt at [danborchardt83@gmail.com](mailto:danborchardt83@gmail.com) with a detailed description of the opportunity and help needed.

## **PAST EVENTS**

### **ASCE – WISCONSIN SECTION - SKY'S THE LIMIT OUTREACH PROGRAM AT UNIVERSITY OF WISCONSIN-PLATTEVILLE**

**By: Kristina Fields**

The Wisconsin Section of the American Society of Civil Engineers (ASCE), in conjunction with the University of Wisconsin-Platteville Women in Engineering, Mathematics and Science (WEMS) Program, received \$2,000.00 to support the Sky's the Limit outreach program for the 2013-2014 academic year. The program was held from Friday-Sunday December 6-8, 2013 for grades 11 and 12, March 7-9, 2014 for grades 7-8 and April 25-27, 2014 for grades 9-10. The program curriculum for the events was centered on an infrastructure theme and was well aligned with the current goals and strategic objectives of the ASCE Wisconsin Section.

The Sky's the Limit program offered three weekend events for girls in grades seven through 12 during the 2013-2014 academic year. The program focused on encouraging young women to explore the science, technology, engineering, and mathematics (STEM) fields through hands-on, team-based, socially relevant projects. Each event also provided age-appropriate, themed activities to increase participants' knowledge and understanding of STEM majors and careers.

A total of 74 girls in grades seven through 12 participated. Attendees came from communities in the tri-state region, including Platteville, Wis.; Madison, Wis.; Wausau, Wis.; Appleton, Wis.; Hartford, Wis.; Dyersville, Iowa.; Cedar Rapids, Iowa; Davenport, Iowa; Ames, Iowa; and Rockford, Ill. Program leaders

specifically recruited participants from underrepresented minority backgrounds, including those from both rural and urban communities. By doing so, the program was able to reach young women who would otherwise not have the opportunity to discover and explore STEM fields.

Program leaders collaborated with many partners on and off campus to ensure a quality curriculum that included accurate information about STEM disciplines, including civil engineering and infrastructure.

### **ASCE MAY/DINNER MEETING – MAMA MIA’S BROOKFIELD**

**By: SE Branch**

The SE Branch held their May Luncheon Meeting at Mama Mia’s in Brookfield. The meeting topic was the Becher Street Project.

### **SW BRANCH/WSPE JOINT MEETING – FRAC MINING**

**By: SW Branch**

Thomas Beekman, P.E., WisDOT, presented on frac mining at Fitzgerald’s Restaurant on May 22, 2014. The presentation took a look at ‘shale play’ and its impacts on US and worldwide energy supply.

### **SW BRANCH/SWANA SOCIAL – MADISON MALLARDS BASEBALL GAME**

**By: SW Branch**

SWANA Young Professionals invited ASCE to join them for a night out at a Madison Mallards baseball game Thursday May 29th.

### **FV BRANCH SOCIAL – GREEN BAY BULLFROGS BASEBALL GAME**

**By: FV Branch**

The Fox Valley Branch enjoyed an evening of great baseball as the Green Bay Bullfrogs kicked off their 2014 season on Friday, May 30, 2014. This was a perfect time for families to kick off their summer of fun to socialize and get to know other engineers in the area.

### **ACCESSIBLE PEDESTRIAN SIGNALS WORKSHOP**

**By: SE Branch**

On Tuesday June 10, 2014 a workshop was held to provide information and guidance pertaining to the features, design, and installation of accessible pedestrian signals (APS). This full-day workshop is the product of a national research project that developed guidance on APS to optimize safe and independent crossing at signalized intersections by pedestrians who are visually impaired.

### **ASCE GOLF TOURNAMENT**

**By: SE Branch**

Thank you to everyone who attended the 2014 ASCE Golf Tournament on June 13, 2014 at the Ironwood Golf Course in Sussex. This year’s event was a success. Special thanks go out to the planning committee members and volunteers who helped make this event a success. The money raised will provide scholarships to deserving civil engineering students from Marquette University, the Milwaukee School of Engineering (MSOE), and the University of Wisconsin - Milwaukee (UWM). Selected from dozens of applicants, one student from each of the three schools is honored with a \$2,000 scholarship and a fourth student from one of the three schools is provided with another \$2,000 scholarship.

### **ASCE JUNE/DINNER MEETING – UNIVERSITY OF WISCONSIN - MILWAUKEE**

**By: SE Branch**

During their 2008 Master Planning Process, the University of Wisconsin - Milwaukee (UWM) identified a need for a new campus that would put graduate level engineering in close proximity to the Milwaukee Regional Medical Center. John T. McCarthy, P.E., LEED AP, a principal with GRAEF-USA Inc., presented the unique and innovative solutions to the issues encountered during planning, design and construction of the campus.

### **2<sup>ND</sup> TRANSPORTATION AND DEVELOPMENT INSTITUTE CONGRESS**

**By: T&D Institute**

Bob Bryson, P.E., MASCE, City of Milwaukee was one of the co-chairs involved in planning the Transportation and Development Institute (T&DI) of the American Society of Civil Engineers (ASCE) held from June 8-11, 2014 in Orlando, Florida.

The conference program included the following:

- An extensive technical program developed by a scientific committee with more than 80 members. Five concurrent technical tracks and two technical tours provide many opportunities to earn up to 18.5 professional development hours (PDHs).
- Opening Plenary Session featuring an address by Dr. Man-Chung Tang, Chairman of the Board of T.Y. Lin International Group.
- Second Plenary Session featuring addresses by US Secretary of Transportation Anthony Fox (invited) and Congressman John Mica (invited).
- Technical tours featuring SunRail and Orlando International Airport.
- Exhibits from companies driving innovation in transportation and development planning, engineering, and construction.

### **ASCE JULY/DINNER TOUR – WASTE MANAGEMENT OF WISCONSIN**

**By: SE Branch**

Where do your recyclables go, and what do they become? The SE Branch took a tour of Wisconsin's largest recycling processing plant for an inside look at how Waste Management of Wisconsin converts recyclables into feedstock for manufacturers around the globe. Learn how and why this \$24 million facility is revolutionizing recycling for Wisconsin households, businesses and institutions.

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## **UPCOMING EVENTS**

### **REGION 3 ASSEMBLY**

**By: John Frauenthoffer**

**When:** August 15-16, 2014

**Where:** Club Quarters Central Loop Hotel, 111 West Adams Street, Chicago, Illinois,

Congratulations Wisconsin: Sustainable Funding!

Attend and Debate at the Assembly!

Wisconsin State Senator Neal Kedzie is known for his practical efforts in the Wisconsin Legislature. He reports that Wisconsin's transportation system is funded by vehicle registrations, driver licenses, and gasoline taxes. The previous Governor raided the fund for \$1.4 Billion dollars. The Wisconsin Legislature passed and Governor Scott Walker signed Assembly Bill 704 strengthening the funding for transportation, increasing the level by \$43 Million dollars this year. This is the direction needed in every state in Illinois. Congratulations Wisconsin!

We will debate the Region Three Infrastructure Initiative at the Assembly on August 15 and 16 in Chicago. The Initiative concentrates on Transportation, Water, and Recreation and will provide Sections and Branches with proposals for new sustainable State and Local Infrastructure Funding. Assign your delegates soon and reserve the Assembly on their calendars. This will be the most important Assembly to date!

Your Governors have created a terrific agenda including:

1. Debate and Approval of the Region 3 Infrastructure Initiative.
2. Stephen Beitler of World Business Chicago, the Chicago Infrastructure Trust
3. A NEW Region 3 Public Service Initiative. Learn how to choose public service in elected office.
4. Robert Stevens, ASCE President-Elect.

It is the intent of your Board of Governors that the Infrastructure Initiative will lead to new Sustainable Funding Sources in our six states!

### **ASCE LUNCH MEETING – OWENSBORO HEALTH REGIONAL HOSPITAL**

**By:** SE Branch

**When:** August 21, 2014 11:45 Social Gathering, Noon Lunch followed by presentation

**Where:** T.G.I. Fridays at Miller Park

Part of a long-range, multi-phase master plan, Owensboro Health Regional Hospital (OHRH) accommodates streamlined processes, new technology, and future growth on a 162-acre campus in western Kentucky. The 780,000-square-foot replacement hospital includes a 385-private bed, nine-story Bed Tower, three-story Diagnostic & Treatment Building, Emergency Department, Women's Center, Heart Center, and Outpatient Diagnostics Center.

The success of OHRH's replacement facility is the result of an integrated design process, in which architects, engineers and contractors pulled their collective expertise to deliver a leading-edge hospital. Utilizing Integrated Project Delivery (IPD) to share risk between architect, contractor and owner, the design team added \$5 million to the project scope without increasing overall budget. The project is located in a high seismic zone on a site with poor soil conditions so the structural team was engaged very early in the process. Using a component-based design approach and target value costing, the structural team collaborated with the architects, designers and contractors to identify workable, cost-efficient solutions to these challenging conditions. This presentation will discuss the project challenges and the numerous structural innovations that were used to meet these challenges without negatively impacting project costs or schedule.

#### **Speakers:**

Jeff Millmann, P.E. LEED AP is an Associate Vice President and senior project engineer with HGA Architects and Engineers in Milwaukee. He earned a BS in Civil Engineering from the UW-Platteville and a MS in Civil Engineering from the University of Minnesota. He served as the lead structural engineer on the Owensboro Health Regional Hospital and has 18 years of experience working on a variety of healthcare, corporate and commercial projects.

Chad O'Donnell, P.E., S.E., LEED AP is the Director of Structural Engineering and an Associate Vice President with HGA Architects and Engineers in Milwaukee. He has over 20 years of experience working on healthcare, corporate and commercial projects of varied size and scope, including many of HGA's largest hospital projects. He is a graduate of Marquette University, is a registered professional or structural engineer in 14 states, and is actively involved in a number of professional societies at both the local and national level.

### **2014 ASCE ANNUAL MEETING**

The Fox River Valley Branch is pleased to present the 2014 ASCE Wisconsin Section Annual Meeting at the Bridgewood Resort Hotel and Conference Center in Neenah, WI on September 4, 2014.

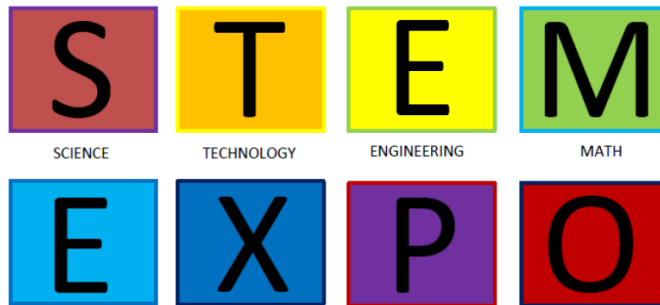
We are fortunate to have Steve Tyink as our general session speaker. Steve delivers an energetic presentation and has served in this role for more than 70 national conferences including the Mayo Clinic 'Quest for Quality.' Steve was selected by President William J. Clinton to represent the hospitality industry on the Employment of People with Disabilities Committee in Washington D.C. Appearing in Time Magazine as Retail Facility of the Year, more than 60 articles and book chapters have been published within the past four years featuring the vision, experience-based design strategies, and innovative practices of Tyink and his projects. Steve will share with us new ways of delivering projects and improving relationships.

We are also excited to have Brian Meluch, Region 3 Governor, with us. Brian is a great speaker and will talk with us about his work with the National Committee on Student Members. It will be a great

conference and we hope to see you there! (Link for registration: <https://www.regonline.com/2014ascewisconsinsectionannualmeeting> )

## 2014 STEM EXPO

Discover the world of Science, Technology Engineering and Math at the Exploration Stations at the STEM Expo! Back by popular demand is the STEM Expo hosted by the American Society of Civil Engineers (ASCE) Wisconsin Section Southeast Branch Younger Members Group (YMG). STEM Expo will be held October 25, 2014 at the Milwaukee School of Engineering (MSOE) Kern Center from 11AM to 3PM. Similar to the last STEM Expo in 2012, the goal of the STEM Expo is to help inform the local community and state of Wisconsin of the science, technology, engineering, and mathematics (STEM) education coalition. The STEM Expo will have different companies from Milwaukee and surrounding areas setting up at tables and having information and activities related to STEM for children ages 6 through 18. This event is to encourage those in attendance to pursue a career in one of the STEM fields. Bring your questions and be prepared to get a little messy!



Exploration Stations include: Build and Race a Rubber Band Car, Concrete Floats, Toy Chemistry, Traffic Trivia, Lego Tower Building and much, much more. Check our website for an updated list of events. <http://www.ascewise.org/stem-expo/>

- The first 100 kids to attend will receive a goodie bag of prizes from the sponsors
- Food Trucks will be on site during lunch
- There will also be a raffle for the adults at 2:45

We are asking for companies and organizations that have STEM backgrounds to attend and sponsor the event. Sponsorship provides support for exploration station activities specific to STEM field and allows the event to be free to the public. Sponsors will be recognized at STEM Expo and on the STEM Expo website.

There are other ways to contribute as well. Companies and organizations that cannot provide volunteers, may sponsor the event as well. Sponsors will be recognized at STEM Expo and on the STEM Expo website.

Sponsorships are set up in tiers, as listed below:

- Platinum Sponsorship - \$2,000
- Gold Sponsorship - \$1,500
- Silver Sponsorship - \$1,000
- Bronze Sponsorship - \$500
- Exploration Station - \$200
- Friends of STEM Sponsorship - anything less than \$200

Here are some of the details on the arrangements we have made for the exhibits:

- Exploration Stations will be set up in the gym.
- The event will start at 11:00 AM and conclude at approximately 3:00 PM. The exhibit space will be available for setup at approximately 7:00 AM on October 25. Each space is approximately 8'x10' with an 8' table for your use.
- Your name being featured in the event brochure.

- Registration for sponsoring is due September 1st. You can register through this email or by sending a check to Kenneth R. Mika, c/o Natural Resource Technology, 234 W. Florida Street, 5th Floor., Milwaukee, WI 53235. Please make checks payable to ASCE Wisconsin - Southeast Branch.

We appreciate your interest in and support of ASCE and look forward to counting on you to help make our STEM Expo a success. To confirm your commitment for an exploration station or to participate as a sponsor, please return the form included below with payment by mail. In the meantime, please feel free to call me at 414-416-9619 with any questions or email at [krmika27@gmail.com](mailto:krmika27@gmail.com) To sponsor the event, click on the link below or contact Ken Mika ([krmika27@gmail.com](mailto:krmika27@gmail.com)).

<http://events.r20.constantcontact.com/register/event?oeidk=a07e9hzisczc61d2c86&lr=8wbor5kab>

If you are a company looking to get involved in the Exploration Stations, please contact Bridget Henk ([Bridget.Henk@graef-usa.com](mailto:Bridget.Henk@graef-usa.com)) or Kyle Bareither ([kbareither@naturalrt.com](mailto:kbareither@naturalrt.com)) for more information. ASCE is a tax exempt 501(c)3 Non-profit organization.



**ASCE Wisconsin Section Fall Annual Conference**  
**September 4, 2014 at BEST WESTERN PREMIER**  
**Bridgewood Resort Hotel, 1000 Cameron Way,**  
**Neenah, WI 54956**

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## CALENDAR OF EVENTS

### 2013-2014 Calendar of Events

The calendar is simply a guide and may change throughout the year.

#### AUGUST:

- **August 15-16** - ASCE Region 3 Assembly
- **August 21** - SE Branch Owensboro Health Regional Hospital – Miller Park, Milwaukee, WI

#### SEPTEMBER:

- **September 4** - ASCE WI Section Annual Meeting - Neenah, WI
- **September 21-22** - Presidents and Governors Forum – ASCE World Headquarters, Reston Virginia
- **September 25** - UW-Madison Civil and Environmental Golf Outing – Pleasant View Golf Course, Middleton, WI

#### OCTOBER:

- **October 25**- STEM Expo- MSOE Kern Center
- **October TBD**- Tour of Title Town Brewery- FV Branch

#### NOVEMBER:

- **November TBD** – FV Branch joint meeting with WSPE – Rock Garden

#### MARCH 2015:

- **March 12**- Spring Technical Conference- Lacrosse, WI

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## OTHER NEWS

### Special Thanks and Kudos for a Job Well Done

**By: Wisconsin Section**

Congratulations to UW-Madison steel bridge team on taking 5<sup>th</sup> place overall at Nationals.

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## UPDATE YOUR ASCE MEMBERSHIP FOR 2014

### UPDATE ASCE ONLINE PROFILE REGULARLY

Please update your ASCE online profile with current E-mail and mailing addresses to guarantee you receive ASCE newsletters and important information. As a reminder, those of you that have passed your PE exam, make sure to change your account with ASCE National. To update your ASCE profile, go to [www.asce.org](http://www.asce.org) or call (800) 548-272.