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Website:

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

PRESIDENT'S MESSAGE

Dear ASCE Members,

I'm honored to be writing to you one last time as a past president of the Branch. I asked if I could do this last message so that I could share with you some very exciting times for the Section and Branch.

In 2011, the Section sponsored a trip for a YMG representative to travel to Memphis for the ASCE Annual Meeting. The primary purpose of the trip was to accept the award for the Outstanding Younger Member Group. YMG selected me as their representative. While in Memphis, the idea of the STEM Expo was developed combining many of the ideas presented by the national leadership in the various sessions. It was an opportunity to continue to do what our group was good at in a way that mutually benefited the sponsors. When I returned from the trip some said it couldn't be done, that the scope was too large for a group of our size to pull off. I'm happy to report that this year, the second STEM Expo was held at MSOE's Kern Center. This year's event touched the lives of nearly 640 people. Over 200 volunteers helped guide 226 students and their parents to discover the wonderful world of Science, Technology, Engineering, and Mathematics. To see pictures and a time-lapse video of the event please check out the event website at www.ascewise.org/stem-expo.

This past week, I attended the International Conference on Sustainable Infrastructure in Long Beach, California sponsored by the ASCE Committee on Sustainability (national), the Wisconsin Section and GRAEF. Just like in 2011, I returned energized and ready to make a difference in Wisconsin. In the near future, the sustainability committee will be bringing our membership some new and exciting programs. Together, our ASCE members can make a difference to make our society more sustainable. We may already be making an important difference by helping expose area students to STEM fields, but our mission needs to be broader than that. We have the unique opportunity to help define the future of engineering: sustainability. We may be the newest and the largest WI Section committee, but can always use more help. The more hands, the lighter the load and greater impact we can make! If you are interested in joining the committee, I would love to have you.

Thank you all for the dedication to our volunteer organization!

Sincerely,

Bridget Schuh Henk, P.E., LEED AP BD+C

GRAEF

STEM Expo

Article By: Bridget Schuh Henk

On October 25, 2014, the 2nd STEM Expo was held at the MSOE Kern Center. The purpose of this free event was to expose students and their parents to the world of Science, Technology, Engineering, and Mathematics through hands-on exploration stations and demonstrations. A fantastic team of volunteers coupled with an elite group of sponsors led to the nearly 640 people that were involved in the event. As mentioned in the president's message, the 2014 pictures and time lapse video have been posted to the website at www.ascewise.org/stem-expo.



Kyle and I would like to sincerely thank our planning committee for a job well done. We started meeting in March to get the 2014 event underway. The committee consisted of an on-site group as well as several working behind the scenes. The on-site crew did a lot of work developing the activities, portioning them out and organizing the many boxes of supplies. At one meeting "Team Awesome" from the LEGO Movie was played and I can't think of a more fitting song for this group. They were truly awesome.

Our committee consisted of:

- Bridget Henk – GRAEF (Co-chair)
- Kyle Bareither – Natural Resource Technology (Co-chair)

- Joe Barritt – ATC
- Nick Bobinski – Kapur and Associates
- Tony Castle – EMCS
- Ben DeBaker – Ayres Associates
- Dave Jaromin – HNTB
- Ken Mika – Natural Resource Technology
- Josh Mitchell – Patrick Engineering
- Rebecca Parker- CH2M Hill
- Andrea Salas – Natural Resource Technology
- Sarah Sanfilippo – CH2M Hill
- Aaron Schramm - exp US Services
- Brad Seubert – Harwood Engineering Consultants
- Christine Sowinski – HNTB
- Nick Spitzer –HNTB
- Jared Wendt – CH2M Hill

Even after some late meetings towards the end of the project the attitudes were very positive and it showed in a great event. We couldn't have had such great success without this team. Next time you see them, if you could join me in expressing sincere thanks it would be greatly appreciated.

To me the biggest sign of success is being asked to do the event again. We are penciled in to have our 2015 STEM Expo next October. Planning for the event will likely begin in February!

October Mentoring Meeting Wrapup

Article By: Jared Wendt

The ASCE Southeast Branch held the annual mentoring meeting on Tuesday, October 28 at the Best Place (Pabst Brewery). Every year for the mentoring meeting, the Branch invites students from MSOE, Marquette, and UW-Milwaukee and sets them up with members from the branch during dinner to give the students an opportunity to talk to practicing professionals about the work that we do. After dinner, Dr. Mark Federle from Marquette University gave a presentation on a series of ethics case studies that generated some good discussion among the group. The event was well attended with approximately 30 members and students.

Call for Future City Mentors

Article By: Brad Seubert

Future City is an educational program and competition where middle school students imagine, design and build cities of the future. Over four months students work as a team with an educator and a volunteer mentor to design a virtual city using SimCity software, research and write an essay, build a model of their city using recycled materials, write a brief narrative about their city and present their city before a panel of judges at Regional competitions in January. The essay topic this year is on Feeding Future Cities.

Future City Teams are in need of mentors. Being an engineer mentor is not a huge time commitment, but the impact you will have on the students is immense. They look to you for advice and encouragement, and your support is crucial to their success. Please consider contributing a couple hours a week to this great program. For more information, including schools in need of a mentor, please contact Tony Castle at acastle@emcsinc.com or 414-810-8264.

Younger Member Group Wins “Stemmy” Award

Article By: Brian Genduso

Please join me in congratulating the Southeast Branch's Young Members Group as winner in the Partnership category for the 11th Annual sySTEMnow Conference's Excellence in STEM Award (The Stemmys).

As you read month after month in this newsletter, our YMG is very active and contributes much to the branch and our communities. Whether encouraging students to pursue engineering careers through school visits, mentorship programs, event volunteering, competition judging or hosting large events such as the STEM Expo, the group exhibits enthusiasm and dedication.

From Kyle Bareither, current YMG president:

“Because of YMG's continued pursuit to volunteer in the Milwaukee community, YMG has been able to reach many youth who were unaware of the civil engineering and STEM career fields. Teachers have requested YMG members to continue returning to their classrooms year after year because of the excitement their students show after having YMG members discuss civil engineering and STEM careers.”

Congratulations to the Younger Member Group!

Outreach Opportunities

Article By: Brad Seubert

Hunger Task Food Drive:

Please help ASCE YMG collect non-perishable food items for donation to Hunger Task Force! Then, join us November 20th 6-8PM at Leff's Lucky Town to drop off your donation and celebrate your generosity! If you have any questions about the event please contact Tony Castle at 414-810-8264 or acastle@emcsinc.com

Boy Scout Engineering Merit Badge:

On December 6th, ASCE YMG and other local engineers will provide merit badge counseling and assistance for Boy Scouts earning the Engineering Merit Badge. This event is part of NovaCon STEM Fair which takes place at WCTC. Activities include discussion of different engineering careers, experimenting with different materials and observing their properties and learning about engineering ethics. If anyone has an interest in helping out with this event please contact Tony Castle at acastle@emcsinc.com or 414-810-8264.

Upcoming YMG Events

Article By: Brad Seubert

Santa Hat Bar Crawl:

ASCE YMG is having their 3rd annual Santa Hat Bar Crawl on Friday Dec 12th from 6:00pm to 11:00pm with Santa Hats provided by YMG. This year we are going to be in the Walkers Point area with stops at Steny's Tavern & Grill, Fat Daddys Tavern, Walker's Pint, Tony's Tavern and Lucky Joe's Tiki Room, more information about specials and schedule to follow via Email. We look forward to you joining us for a drink!

Ski/Sledding event:

YMG is in the process of planning a ski/sledding event towards the end of January. More information will be provided as details are known.

Admirals Hockey Game:

ASCE YMG is planning a 2nd annual Admirals Hockey game sometime in February, your ticket will include food before the game. More information will be provided as details are known.

Welcome New Members

Article By: Mike Arnold and Nick Bobinski

ASCE Wisconsin Southeast Branch is pleased to welcome new members Benedetto Guido, Anthony Pohl, Mir Shams, Taylor Schmidt, Luke Muller, Sean Casey, and Jill Vande Boom.

Looking for ways to get involved? Attend the November Lunch Meeting, become a Future City team mentor, or help the Younger Member Group collect food donations for Hunger Task Force. Stay up to date by visiting our website: www.ascewise.org . We look forward to meeting you!

International Conference on Sustainable Infrastructure Summary

Article By: Bridget Schuh Henk

On November 6-8, 2014 the International Conference on Sustainable Infrastructure was held in Long Beach, California. The conference included world renowned speakers discussing sustainability challenges world-wide. Topics included electric cars in the UK, building a transportation network in Dhaka, mass urbanization and ecological cities in China, and even the water challenges of Orange County, California. Emphasis was placed on the “triple bottom line”, Envision, and resolving conflicts.

We often hear that being green is more costly and affects the bottom line, but whose bottom line are we talking about? The social bottom line? The environmental bottom line? The economic bottom line? ACEC, APWA, and ASCE combined their intelligence to come up with a tool to evaluate the “triple bottom line,” combining the social, economic, and environmental costs of a project and evaluating the many options of the project specifics. The collaborative effort resulted in the formation of Envision.

Envision is a green rating tool like LEED, but has a much broader scale. LEED certification is only for buildings. Envision, on the other hand, is for infrastructure. It is a tool that can look at a water main and a bridge under the same general framework. When used in conjunction with life cycle analyses, this tool can lead to incredible projects that are not only good for the pocketbook, but good for the people, and the environment. Want to know how it works? Stay tuned! Envision will be an important topic of future technical sessions.

In addition to new tools such as Envision, the conference also had a focus on conflict resolution. Why discuss conflict resolution at a conference on sustainability? When the terms “green” or “sustainable” or “stormwater management” are mentioned in relationship to a project, defenses tend to go up, and for good reason. For a very long time, those words meant increased cost and decreased usable space. These have become hard grained responses, and will take some work (and time) to change. Starting the conversation differently and highlighting mutual benefits of sustainable projects is what will help create a more sustainable world. If we are to be honest about the nature of engineers in general, conversations are not our strongest asset. Any help we can get to more effectively communicate is beneficial.

I hope to go into more detail about what I have learned at this conference in a presentation at the next Spring Technical Conference.

I'd like to sincerely thank the ASCE Committee on Sustainability, the Wisconsin Section and GRAEF for the opportunity to attend the conference.

2015 ASCE Membership – Renew Now!

If you haven't done so already, please renew your ASCE membership for 2015. Renew today and be entered in a drawing to win a 50" flat panel TV on December 16, 2014.



ASCE gives you three easy ways to renew early:

1. **Online** at www.asce.org/renewal.
2. **Mail** in your 2015 renewal form to Membership Department, P.O. Box 79084, Baltimore, MD 21279.
3. **Call** ASCE's Customer Service at (800) 548-ASCE (2723) or (703) 295-6300 between 9:00 a.m. – 6:00 p.m., E.T., Monday-Friday.

2015 AEI Professional Conference to be Held at MSOE

Article By: Chris Raebel



The Architectural Engineering Institute (AEI), in partnership with the Milwaukee School of Engineering (MSOE), is pleased to announce the 6th Biennial Professional Conference for 2015. The theme of the conference is the "Birth and Life of the Integrated Building."

The conference offers an opportunity for members of the building construction industry, including structural, mechanical, and electrical engineers, construction management professional and architects, to learn about and discuss advanced strategies and state-of-the-art practices of building technology. The conference offers a balance between academics and practice and will offer presentations, panel discussions, workshops, technical paper sessions, keynote presentations, local tours of technical interest, a student competition and professional practice awards. In addition, MSOE will be hosting a career fair the night before the conference that is open to all Civil and Architectural Engineering and Construction Management employers and students.

Visit www.asce.org/aeiconference2015 for more information and registration.

Visit www.msoe.edu/careernight for information on the career fair.

To All You Wannabe Rock Stars Out There

Article By: ASCENews Weekly

Prove that civil engineering rocks – Enter ASCE's music video contest

Some would say there's no such thing as a good song about civil engineering, but ASCE's betting that our members have the talent to prove that wrong. Enter ASCE's 2014 Music Video Contest by the Dec. 12 deadline and your original tune or a parody of a pop hit could win your Student Chapter or Younger Member Group \$5,000. The first 100 qualified submissions earn their ASCE chapter/group \$100 just for trying. Get details on how and where to upload entries.



Full details can be found online at:

http://images.message.asce.org/Web/AmericanSocietyOfCivilEngineersInc/%7bf25d7e1b-3a30-4e89-b329-17e4df461422%7d_2014-video-contest-flier-FINAL.pdf

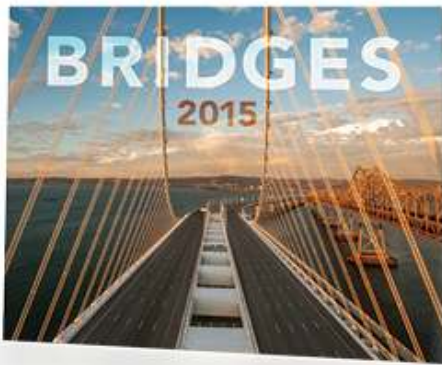
Free eLearning Webinar on Sustainable Project Management

Learn to integrate the tenets of sustainability and how they apply to the Envision™ sustainability rating system into your program and project management with ASCE's upcoming eLearning Webinar, **Sustainable Project Management**, free for Society members. Participants will learn about the principles of sustainability, how practitioners can use the principles during program and project management to create public trust and improve sustainable performance of civil infrastructure.

Presenter Dave Ellison, P.E., M.ASCE, ENV PV, will show you how accounting for sustainability throughout the project management process will improve infrastructure performance. It's set for Wednesday, Dec. 10, at 2 p.m. ET/11 a.m. PT.

Register online at: <https://cc.readytalk.com/cc/s/registrations/new?cid=weak6bnaijy0>

Bridges 2015 Calendar Available



The Bridges 2015 calendar showcase a diverse collection of bridges from the United States and around the world, celebrating the unique blend of technology and art that is the hallmark of great civil engineering.

Once again, this year's calendar also celebrates great photography! Every photo in the calendar was selected from entries to ASCE's Bridges Photo Contest. Each bridge photo appears with a description of its technical or historical significance, and the winners of the photo contest are identified. The photos selected for the 2015 calendar celebrate the form, function, and style central to excellence in civil engineering.

Bridges 2015 is a full-sized wall calendar, perfect for jotting down daily activities or appointments.

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=6729>

Bridges 2015 (cont'd.)

January



Stewart Canyon Bridge

February



Old Trail Rt. 66 Bridge

March



Joso Bridge

April



Forth Bridge

May



ACL Railroad Bridge

June



Thomas J. Hatem

July



The Helix Bridge

August



SF-Oakland Bay Bridge

September



Dom Luis Bridge

October



Tower Bridge

November



Viaduto do Cais das Pedras

December



Saivan 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.

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



Civil Engineer, PE

Design Alaska, a full service architecture, engineering, surveying firm, located in Fairbanks, Alaska, is looking for a Civil engineer to join our team. Engineering duties typically include site investigations, site design, traffic planning and design, utility system design, coordination with permitting agencies, and the preparation of construction documents using Civil 3D.

Attributes Design Alaska seeks in applicants for this position include:

- Professional registration in Alaska as a Civil Engineer or the ability to obtain a PE license in Alaska.
- Experience in transportation engineering and site design in northern climates is preferred.
- AutoDesk AutoCAD and Civil 3D software experience.
- Good familiarity with Microsoft Office Suite (Word, Excel, Outlook) software packages.
- Construction industry related work experience is desirable.
- Works effectively independently and within team environments.
- Driven, focused, organized, detail oriented, manages time well.
- Good interpersonal, communication, and leadership skills.

If you meet these qualifications and are interested in working for Design Alaska, please fill out the application found at: <http://www.designalaska.com/pages/join-us>. Design Alaska is an EEO/AA Employer/Vet/Disabled. For more information please contact:

Kym Pihlaja
Office Manager
601 College Road
Fairbanks, AK 99701
907-452-1241
kym@designalaska.com