

ASCE Corporate Partnership: How AECOM and ASCE Work Together

by Reed M. Brockman, PE, Associate Vice President, AECOM

It is beyond question that the American Society of Civil Engineers has an incredible amount to offer to its members. AECOM is cognizant of this, and has joined with the ASCE to form a corporate partnership. By simply filling in a form, all AECOM employees automatically become members of the American Society of Civil Engineers. Through this, employees are given the opportunity to more actively participate in promoting involvement and advancement in the field of engineering.

AECOM pays employees' national dues for both first time applicants and renewals. These memberships are discounted through the partnership with ASCE and membership is considered a basic AECOM employee benefit. While local section membership dues, such as those required to join BSCES, are not automatically paid, AECOM will reimburse these dues with manager approval.

AECOM has a large number of employees and multiple offices. In each office, there is an educational liaison that has taken on the responsibility of making the staff aware of available educational opportunities and/or to assist employees in registering for these opportunities, which include ASCE educational offerings as discussed below. In the Boston office, there is also a person who has taken on the role of reading *BSCESNews* and emailing employees about upcoming activities. This individual also works to coordinate groups of interested employees. Beyond this, AECOM has also provided a dedicated page to ASCE on its Salesforce Chatter site. The Chatter page has all necessary links and lists of liaisons, plus it allows for an open discussion of all ideas, plans and opinions of AECOM employees regarding ASCE.

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President's Report

by Ellen P. White, PE, Senior Program Manager, Patrick Engineering Inc.



The theme of this month's newsletter is Outreach and Volunteerism. It is an appropriate theme for April but more so, it is appropriate for every single month of the year.

BSCES is comprised of 3,400 members across the Commonwealth but it is a handful of actively engaged volunteers who run the society. They serve on the BSCES board, chair technical groups and institute chapters, lead more than a dozen committees, organize over fifty events each year, advocate for infra-

structure investment and awareness with our legislators, coordinate with the ten student chapters, publish an engineering journal, host a variety of activities geared to the K-12 community, and even write newsletter articles. Volunteerism is a key to the success of our society. BSCES is grateful for the leadership, hard work, and dedication of its member volunteers. We are also thankful for the organizations that support these volunteers and make our events and activities possible. To learn more about volunteer opportunities, see the [Get Involved](#) section of our website.

UPCOMING EVENTS

Younger Member Group Volunteer Outing
April 30, 2016

EWRI Boston Chapter & YMG Event May 4, 2016

Spring Awards Banquet May 10, 2016

Engineers and Land Surveyors Day at the State House May 10, 2016

2016 Infrastructure Day May 14, 2016

SEI Boston Chapter Event May 16, 2016

2016 Bertram Berger Seminar May 20, 2016

Southeastern MA Committee Event
May 20, 2016

Younger Member Group Red Sox Outing
May 25, 2016

SEI Boston Chapter & YMG Event June 1, 2016

Thomas Camp Lecture June 2, 2016

Further Details Inside



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Similarly, our Outreach efforts occur year-round. Our activities for K-12 students are vast and varied. The Model Bridge Competition allows students to build bridges that must comply with specific standards (this year's chosen material was pasta) and are judged for efficiency and aesthetics. The Future City Competition encourages students to design and build futuristic cities that address sustainability issues. Other activities include the Ralph Salucci Online Bridge Competition, Boston Bridge Tours, and visits to schools and science festivals. To learn more about

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How AECOM and ASCE Work Together

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As part of the partnership with ASCE, AECOM employees have access to the following educational benefits:

- On-Demand Recorded Webinars, which are developed and presented by industry experts on a variety of technical topics. AECOM employees have full access to this library.
- Live Webinars delivered by industry subject matter experts, which allow employees to earn PDHs and obtain certificates. AECOM receives a considerable registration fee discount through the partnership.
- ASCE Library, which provides access to thousands of journal articles, proceedings, papers, and e-book chapters.

AECOM employees receive other partnership benefits including:

- Discounted registration fees on ASCE Professional Engineer Exam Reviews, which are offered twice yearly in the disciplines of civil, structural and environmental, and AECOM covers the cost of employee participation. Announcements are made prior to each event. AECOM also reimburses for the BSCES Professional Engineer Refresher Course with manager approval.
- Receiving the *ASCE SmartBrief*, which is a daily summary of occurrences in the civil engineering industry, written by expert editors to save you time and keep you informed.
- Discounted registration fees for ASCE face-to-face seminars, which are conducted throughout the year on a wide variety of technical topics and in locations across the

US. Comprised of small groups, the seminars allow for more personalized attention and an enhanced classroom experience.

ASCE has staff dedicated to creating and maintaining corporate partnerships, and AECOM is one of numerous organizations that have formed such a partnership. The easy access to educational programs and all ASCE benefits, along with the cost savings to the participating organization, are good reasons any organization with ASCE members should consider forming a partnership.

Active participation in local BSCES events is largely an individual choice for AECOM employees and the company is very proud of those who choose to make volunteerism with BSCES an active part of their daily life. For many years, from being Younger Member Group chairs to the president, individuals from AECOM have been active participants in BSCES beyond simply attending events. The key to bringing about more active participation can be summed up with one word, “ASK.” In AECOM as well as other organizations, the more active members can greatly improve participation in BSCES activities by asking others to get involved.

The BSCES Membership Committee has developed a presentation related to becoming more involved in BSCES. Organizations that would welcome a visit from members of the Membership Committee to discuss this further should contact former BSCES president and committee chair Danielle Spicer at dspicer@greenintl.com.

Submit an Article to BSCESNews

The BSCES Newsletter Editorial Board invites BSCES members to write and submit an article for publication in *BSCESNews*. Typically 400 to 800 words, *BSCESNews* featured articles are about technical topics or professional matters of interest to civil engineers. The June 2016 issue of the newsletter for example, will highlight the BSCES Government Affairs & Professional Practice Committee and feature one or more articles about on the topic of State of Infrastructure.

Email your article in Microsoft Word format to BSCES Newsletter Editorial Board Chair Mike Cunningham at mcunningham@kleinfelder.com or BSCES Association Manager Rich Keenan at rkeen@engineers.org.

BSCES Younger Member Group Outreach

by Jessica Yarmarkovich, EIT, Nitsch Engineering and BSCES Younger Member Group Secretary and MIT Liaison, and BSCES Student Chapter Committee Chair, Valerie Chia, Howard Stein Hudson, BSCES Younger Member Group WIT Liaison, and Kayla Arruda, EIT, Stantec, BSCES Younger Member Group Member.

Members of the Younger Member Group (YMG) host and attend a variety of events geared towards students in grades K–12 and at the collegiate level. Highlights of a few successful events this past year are discussed below.

YMG and the BSCES Student Chapter Committee hosted the annual ASCE Student Chapter Officers Fall Kickoff Meeting at Louis Berger's impeccable office in Needham. Members of eight Student Chapters attended the event, totaling over 30 students. The evening began with a social gathering and dinner, in which students met members of the BSCES Executive Committee, Younger Members Group and students from other school chapters. The night focused on round table discussions hosted by members of YMG and BSCES. Topics that were covered include 'Industry Talk', 'Interview and Resume Skills', 'Becoming a Young Professional', 'ASCE Activities, Awards & Scholarships' 'Younger Members Group', and 'Outreach Activities'.

On October 28, Tom Smith, executive director of ASCE, was the featured presenter at a Northeastern University ASCE Student Chapter event. Members of the Northeastern ASCE Student Chapter started the presentation off with some fun trivia facts, then discussed upcoming chapter events, such as the concrete canoe and steel bridge competitions, and community service planning. Jessica Yarmarkovich, the Student Chapter Committee chair, presented on upcoming Younger Member Group events, the value of the group, and ways for students to get involved.

In November of 2015, the Massachusetts Institute of Technology (MIT) hosted BSCES Board of Government and Executive Committee meetings. Following these meetings, there was a social during which members of the MIT ASCE Student Chapter had the opportunity to network with members of the BSCES board. Three MIT students presented to the board, discussing activities that the chapter has been involved with throughout the year and on their individual research projects. Research projects



UMass Lowell students with BSCES President Ellen White (second from the left) and ASCE Region 1 Governor Linda Hager (far right) at the Fall Student Caucus

ranged from an analysis of embodied carbon in steel and concrete in large construction projects throughout the world, to an intriguing structural engineering analysis and design of an existing dilapidated structure. BSCES thanks the MIT ASCE Student Chapter for an engaging evening!

In January 2016, the Wentworth ASCE Student Chapter hosted a panel discussion called 'Locking Down the Job' regarding life after graduation. Valerie Chia, the Wentworth liaison for YMG, participated as part of a panel and shared her experiences upon graduating, gave advice on co-op and job hunting, and explained the transition from an academic life to a career. The students who attended ranged from freshman to graduating seniors of all different engineering disciplines. They gained insight on how to refine and target resumes to a specific job, how to successfully execute an interview, and how to negotiate a job offer. Alongside Valerie were two other professionals, Ryan Reynolds and Kyle Natichioni, who also contributed their experiences as professionals in the construction and business industry.

This spring, Kayla Arruda took the 5th grade class from The Derby Academy that she mentored for the BSCES Model Bridge Competition on a field trip to the Fore River Bridge construction site in Quincy/Weymouth. A fellow Northeastern University alumni, Shawn Kersey, who is a JF White field engineer for the project, generously co-organized the field trip. Through this tag-team event, the students learned how two engineers, who graduated from the same school with the same degree, can work on different aspects of a bridge project—design and construction. A highlight of the trip was stopping to see the main truss span, which was already assembled and waiting to be barged over. Since almost every group in the class decided to build a truss for their pasta bridge, the opportunity to see a truss this close up was beneficial. After the field trip, many of the pasta bridges included lasagna gusset plates after observing how gusset plates are used in trusses at connections. The teachers and students provided great positive feedback on the field trip, and the two engineers who ran it said it was a phenomenal way to spend a Monday morning.

Earthquakes in Boston

by Benjamin J. Mall, PE, LEED® Green Assoc., Design Engineer, McNamara/Salvia, Inc.

No, not real earthquakes in Boston, but earthquake simulations given by a new demonstration shake table provided by the BSCES Public Awareness & Outreach (PA&O) committee. The shake table, pictured in this article, was recently built by the committee to allow students to build and design structures out of Legos and then test them on the 3ft by 1.5ft table which moves back and forth to simulate earthquakes at a rate of over 100 cycles per second. The new shake table gives students and the public a real-life, hands-on experience of the design process in solving a key civil engineering challenge. As BSCES PA&O Committee chair and volunteer Olivia Richards explained, “the students would build a structure, then test it with the shake table. Then [they would] improve the structural design for the earthquake movement. I would say this is similar to how real life engineers operate. We come up with an initial solution to the problem and then keep improving it until we have our final design.”

The Public Awareness & Outreach Committee focuses on educating students in grades K-12 about the challenges facing society and how civil engineers design solutions to these issues using math, science, engineering and ingenuity. In addition to operating regional competitions such as the Future City Competition and the Model Bridge Contest, the PA&O Committee hosts booths at science and engineering conventions, fairs and festivals to generate awareness of engineering and BSCES.

On March 23–25, the Public Awareness & Outreach Committee debuted the shake table at the National Society of Black Engineers National Convention held at the Massachusetts Convention Center in South Boston. Successfully meeting the goals of the committee, the shake table provided an excellent demonstration of engineering while spreading word about civil engineers, BSCES and ASCE. To explain just how much of an impact the shake table had, Olivia Richards explained

that one 14-year-old student, who had built a giant wall out of Legos, learned about how directionality can affect a structure’s response to an earthquake. The student “was placing the wall perpendicular to the earthquake force. I showed him that rotating the wall 90 degrees to be in line with the force made a huge difference in [the Lego wall’s] resistance [to earthquakes]. We even talked about the moment of inertia of the wall and how having the side with the larger moment of inertia should be in line with the applied force.” Some PA&O volunteers stated that a few students “camped out” at the table, spending hours building and rebuilding their structures to withstand the lateral movement.

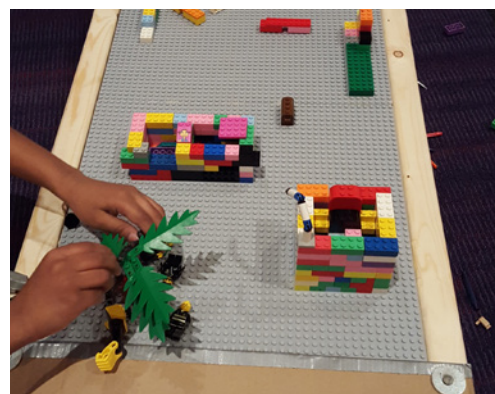
The BSCES shake table was inspired by the National Council of Structural Engineers Associations (NCSEA) President, Brian Dekker, who built his own shake table and encouraged other engineers to build their own for the purposes of public outreach and awareness of the profession. Dekker provided plans and photos of his prototype shake table. BSCES committee member, Alex Bonnar, built this new shake table specifically for the BSCES Public Awareness and Outreach Committee after receiving ASCE State Public Affairs Grant (SPAG) funding.

Although Boston is not known for its high-seismicity, engineers today do design local buildings to withstand earthquakes. This was not always the case as many buildings in the New England region were designed before earthquake-resistant design was required by code. With activities like this shake table, the public will become educated on one of the design challenges facing civil engineers today.

Ben Mall works as a design engineer for McNamara/Salvia, Inc. He is a Registered Professional Engineer in the State of California and the Secretary of the BSCES Public Awareness & Outreach Committee.



The Shake Table in action as Lego buildings slowly fall apart



Building structures with participants at the National Convention for the National Society of Black Engineers.



Reed Brockman preparing to shake test a Lego building made by the Girl Scouts at the Eastern Massachusetts Girl Scouts STEM Conference.



Volunteer Opportunities

Outreach Volunteers Needed!

By Olivia A. Richards, Assistant Structural Engineer, Gill Engineering and BSCES Public Awareness & Outreach Committee Chair

The BSCES Public Awareness & Outreach Committee has the following upcoming events for which volunteers are needed. For more information on volunteering opportunities or becoming part of the BSCES Public Awareness & Outreach Committee, please contact me at oliviaannerichards@gmail.com.

Infrastructure Day—Saturday, May 14, Holyoke, MA

Overview: BSCES will be hosting its 2nd annual Infrastructure Day following the Choate Bridge Celebration in Ipswich last year. Coming up on Saturday, May 14th, this year's Infrastructure Day will celebrate Holyoke's Great Stone Dam on the Connecticut River and the extensive canal system which powered the late 19th and early 20th century mills in Holyoke. Tours will be available of the three-level canal system. The Massachusetts State Heritage Park will be the epicenter of activities for kids and their families, focusing on STEM education activities and historic research for K–12 students. [Click here](#) for additional information.

Looking for: The Outreach Group will need volunteers for hands-on engineering activities for the public at the event. Please contact [Olivia Richards](#) if you are interested in finding out more information!

An Inaugural Senior Night

by Alyson Stuer, EIT, Project Engineer, C&C Consulting Engineers LLC, and BSCES Younger Member Group Vice Chair

On March 1st, the BSCES Younger Member Group (YMG) hosted an event that they hope becomes a tradition. The idea started back in the fall when ASCE provided an opportunity for sections to apply for a grant. Many students are very involved in their student chapters and do not know how to become involved beyond graduation or the benefits of such involvement. ASCE noticed this area where they could improve and created a Student Transition Activity (STAY) Grant Program. The STAY grant is a program intended for students to transition from student membership to associate membership. In early fall, YMG applied for and was awarded a \$1,500 grant. The proposed idea was to pay the associated costs of hosting a senior night where the topics would be tailored to the students with a nearly equal number of students and professionals in attendance who would be matched by their fields of interest.

The grant also allowed the younger members to create a Student Resource Guide with tips about transitioning into the workforce. A photo contest was held for pictures to be included in the handbook to demonstrate the civil engineering community's impacts throughout the region. The guide covers topics from resume writing to the office environment. This guide is now available through the YMG for college student outreach events.

The event was held at Bertucci's Alewife with over 50 students and professionals in attendance. After reviewing the student RSVPs, the committee worked to match the students with professionals who had similar professional

interests. The goal was to create an environment where the interactions were meaningful and to provide the students with someone to reach out to in the future. Networking flowed naturally throughout the evening. Professionals discussed their history, their work, and any advice they had for the soon to be graduates. Overall the night was well received by students and professionals alike. The event's success became evident when nearly 90 percent of

the students requested to become associate members upon graduation.

YMG continuously strives to bridge the gap between student involvement at the college level and professional involvement in the institute chapters and technical groups. The hope is that this event will provide new members that want to get involved as they enter their new positions in the professional community while becoming active in the society.



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President's Report

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these and other Public Awareness & Outreach Committee activities, contact committee chair, Olivia Richards of Gill Engineering or visit the [BSCES website](http://BSCES.org).

There are several upcoming outreach and volunteer events that BSCES is proud to sponsor. They may not be a typical 'dinner with a lecture' event, but in many ways they are more rewarding so I encourage you to learn more and to participate in these activities.

The 2016 New England ASCE Student Conference will be held at Northeastern University and Wentworth Institute of Technology on April 22–24. Perhaps the highlights of the weekend will be the Steel Bridge and Concrete Canoe Competitions. The following weekend, April 30, the Younger Member Group will be hosting a Middlesex Fells Reservation Cleanup to help restore its hiking paths. This is a great opportunity to spend time outdoors with some new friends and help maintain one of our natural treasures.

On May 10, BSCES, ACEC/MA and MALSCE members will gather for Engineers and Land Surveyors Day at the State House. This event allows our members to discuss their views on topics that affect our profession during meetings with their legislators and/or aides. Each member who registers for this event has the opportunity to meet with his or her state representative and senator. TECET staff organizes materials and briefings to update membership on important infrastructure-related legislation. One of the key briefing documents was developed by the BSCES Government Affairs & Professional Practice Committee. They have spent the past year producing an economic study infographic. The infographic, entitled "Infrastructure: Worth the Investment," highlights the economic benefits

of properly investing in Massachusetts' infrastructure and highlights the sizeable funding needs that our roads, bridges, transit, water, and energy infrastructure have. With brief case studies highlighting well-known projects throughout the Commonwealth, the infographic will remind our legislators of the long-lasting positive impacts of smart infrastructure investment. Special thanks to the Government Affairs & Professional Practice Committee and Matthew Bosch-Willett of WSP/Parsons Brinckerhoff for leading this effort.

Also on May 10, BSCES will be hosting the Spring Awards Banquet at Framingham State University. ASCE President-Elect, Norma Jean Mattei will be the keynote speaker. ASCE and BSCES Life Members will be honored and awards will be presented to several students.

That following weekend, BSCES will be sponsoring another outreach event, Infrastructure Day. BSCES had previously sponsored events honoring the 100th anniversary of the Cape Cod Canal and the 250th anniversary of Ipswich's Choate Bridge. On May 14, we will be paying tribute to Holyoke's Great Stone Dam on the Connecticut River and extensive canal system which powered the late 19th and early 20th century mills. The event will also recognize former BSCES President, Clemens Hershel who

developed the Venturi Meter while working for the Holyoke Water Power Company to measure the amount of water used by the individual water mills. David Westerling (Merrimack College), Reed Brockman (AECOM), Sara Campbell (Town of Greenfield) and others are instrumental in making this event possible.

These are just some of our upcoming events. To learn more about these and others, please see our [events page](#).

This newsletter's featured group, the Younger Member Group of BSCES, which is chaired by Cara Pirkey of HNTB, sponsors a variety of events each month that allow new college graduates (and some not-so-new) to engage with the engineering community. I encourage you to read the three articles YMG members contributed to this newsletter and to become actively involved with the group. To learn more about the Younger Member Group and the other technical areas [click here](#).

In closing, I would like to thank all of our corporate sponsors, particularly this month's featured sponsor, AECOM. We are grateful for AECOM's support of BSCES and encourage you to read their featured article entitled "ASCE Corporate Partnership: How AECOM and ASCE Work Together," which was written by Reed Brockman.

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Featured Group

BSCES Younger Member Group

by Cara Pirkey, EIT, Transportation Engineer, HNTB Corporation, and BSCES Younger Member Group Chair

The Younger Member Group (YMG) is a technical group within BSCES that often serves as a liaison to young professionals and students in preparing them for the professional work field. In order to be a younger member, the individual must be recognized as a BSCES member and under the age of 35. YMG provides many opportunities for networking with students, young professionals and other technical groups and institute chapters as well as various volunteering and outreach events.

YMG holds monthly meetings, generally at 6:00 PM on every third Tuesday of the month, at The Engineering Center, One Walnut Street, Boston, MA. At these meetings, committee members discuss past and upcoming events and give new members the opportunity to meet and network with them.

Within YMG there is the Student Chapter Committee, which is comprised of a committee chair who oversees 10 ASCE student chapter liaisons for the various colleges and universities

in Massachusetts. This committee serves as a direct link to the student chapters, each liaison transfers information to the students about BSCES/ASCE events, scholarships, and deadlines. The students communicate with the liaisons when they need speakers for meetings, sponsorships, help with the New England Student Conference, and/or general questions.

Throughout the year, YMG holds many events, besides its monthly meetings. Typically, one social/networking event a month and two community service events a year. Below is a list of events YMG has hosted in the past year:

- Annual YMG Red Sox Game and Networking Event
- Annual Bocce Tournament
- Lunch & Hike through Middlesex Fells Reservation
- Holiday Meal Drive Supporting Greater Boston Food Bank
- Air Traffic Control Flight Simulator at

Massport with the T&DI Boston Chapter

- Annual Holiday Party and Toys for Tots Drive
- Ski Trip to Stowe Mountain
- Annual Billiards Tournament and Networking Night
- Senior Night
- Cider House Tour and Lunch at Downeast Cider House
- Student Night 2016

The YMG also has a number of upcoming events including:

- Volunteer Day at Middlesex Fells Reservation on April 30, 2016
- History of the MWRA Dinner Event with the EWRI Boston Chapter on May 4, 2016
- Red Sox Game and Networking Night on May 25, 2016

We hope to see you at future events! Check us out on social media and send any questions to BSCESYMG@gmail.com.

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Listen up Younger Members: If You're Not at the Table, You're on the Menu!

by Peter A. Richardson, PE, LEED AP, CFM, ENV SP, Vice President, Green International Affiliates, Inc.

There's an old adage in government affairs work that "if you're not at the table, you're on the menu." If civil engineers are not actively engaged in the making of new laws and regulations that could impact our profession and future livelihoods, we can be sure that someone else will make decisions for us and it's more likely they will not be in our best interest if we don't weigh in.

Civil engineers have the legal responsibility to keep ourselves informed relative to laws and regulations that apply to the work we do, and we also have a vested interest in being informed about proposed legislation or new draft regulations that may impact the civil engineering profession. On a fairly regular basis, new proposed legislation is written by non-engineers that if enacted, could negatively impact the civil engineering profession. Some examples are legislation or regulations that: shift increased risk and professional liability from owners/contractors onto engineers; prevent engineers in private practice from working as a consultant for public agencies; exclude qualification based selection processes; and/or allow non-professionals to perform engineering work. Alternatively, there are many times when legislation that would be good for both the civil engineering profession and society in general does not get passed because of opposing special interests or funding excuses.

ASCE and BSCES work very hard to inform its members of pending legislation/regulations that

could impact the profession. When members receive this information, it is very important that they review it, become informed on the issue, and contact their elected representatives to explain to them why the issue is important (to society in general and not just the engineering profession) and why he or she should either support or oppose it. Legislators tally the calls, letters and emails they receive from constituents and many times the way they vote is based on which side of an issue has made the most noise. Furthermore, regulatory agencies often develop draft regulations after receiving authority from newly enacted laws and release drafts for public comment. If the draft regulations are problematic, regulators are not going to make changes unless they hear from stakeholders.

One of the easiest and best ways to learn about upcoming legislation and/or issues that impact the civil engineering profession (and also to learn more about how the state legislature in the Commonwealth of Massachusetts works) is to participate in the Annual Engineers and Land Surveyors Day at the State House (or as I like to call it, "E&LSD"). This year's event will be held on Tuesday, May 10, 2016. At E&LSD, BSCES will join ACEC/MA and MALSCE members at the Massachusetts State House, like we have done for many years in the past, to discuss important engineering related issues with our state representatives and senators. We usually focus on the top four issues for the year. We prepare ourselves to speak about the issues by participating in briefing sessions (either in

person or by teleconference) the week before and receive materials with our talking points. The event is a great opportunity for younger members to meet with their state representative and state senator, or more likely with the staff members of each office, and discuss issues pertinent to our profession and steps the legislature should take to better serve society, especially in regards to our infrastructure, the environment, the economy, and public safety.

When you sign up for this free event, TECET staff members arrange for meetings with the offices of your Massachusetts state representative and state senator based on where you live and vote (Note: these people are not your US senators and representative in Congress). Briefing materials are given to each attendee to leave with legislative staff members. Most often attendees meet with staff members, who are typically young, energetic, intelligent, political science professionals who gather information on a host of issues and report back to their respective legislator. Informing the staffers is just as important, if not more so, than having a brief conversation with your actual elected representative. For new comers who may be a little nervous about the process, TECET staff can pair you up with a veteran to show you the ropes for the first time. Ask your employer if you can have the morning off to attend this event (even if you don't get paid for the time!). Participating in E&LSD is free, low risk leadership training that will not only help your professional career, but will make you a better citizen overall.

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BSCES Legislative Fellow Update from Beacon Hill— The Massachusetts Transportation Program—A Legislative Update Recap

by Michael Sullivan, PE, Senior Bridge Engineer, Collins Engineers, Inc., 2015–2016 BSCES Legislative Fellow



On March 24th, the BSCES Transportation & Development Institute Boston Chapter hosted a panel discussion on various legislative initiatives and topics relative to transportation and public infrastructure. The panel featured four speakers: Representative Smitty Pignatelli (4th Berkshire District); Representative Chris Walsh (6th Middlesex District); Braintree Mayor Joe Sullivan; and Steve Woelfel, director of strategic planning at MassDOT. The moderator for the evening was Bill Lyons, president and CEO of the Fort Hill Companies.

After dinner, all of the panelists provided opening remarks on a range of topics of interest to their respective backgrounds. Representative Walsh began by describing how the skills he learned as a registered architect translated well in the legislature. “You listen, and then you solve problems,” he stated. He also remarked on a few of the recent transportation updates happening in Framingham and went on to talk about the role the Central Artery project has had on the growth of Boston.

Representative Pignatelli’s opening remarks included a discussion on the importance of local option taxes to municipalities. In his hometown

of Lenox, a small hotel tax of a few percent resulted in over a million dollars of new revenues the town could use to fund their operating budget. This made sense for Lenox because of the high number of tourists that flocked to the town each year. He mentioned legislation he filed earlier in the year to allow the town of Lee to implement their own gas tax. With eight gas stations in the town, every cent earned through the tax will stay and be used on local infrastructure, instead of being sent to Boston to fund the MBTA.

Mayor Sullivan spoke about transit oriented development in the town including a new 170 apartment complex to be built near a commuter rail station. He touched upon the need for an additional vehicle lane on Route 3 and the possibility of a public-private partnership. “They’re doing these kinds of projects in Virginia and Florida so why can’t we do them here?” he stated.

Finally, Steve Woelfel introduced some of the highlights of the soon to be released five year combined MassDOT and MBTA capital improvement plan (CIP). According to Woelfel, the new plan will have three priorities: State of Good Repair, Modernization, and Expansion. 18% of the CIP will be dedicated to

modernization including reconstructing the I-495/I-90 interchange, the Allston I-90 interchange, and Route 79 in Fall River. He mentioned that the new CIP will need to be voted on by the MassDOT Board of Directors and that full details will be released in late spring.

After the opening remarks, Bill Lyons led off the panel discussion with a question about local option transportation taxes (LOTTs). He asked the panelists if they believed LOTTs might help alleviate the existing east-west tension felt in Massachusetts due to the high level of investment in the MBTA. Most members of the panel agreed and felt it was a good move to have local voters have the ability to vote for local taxes, but also mentioned the importance of continuing to invest in the greater Boston area because of its role as the primary economic engine of New England. The panel included some additional discussion on the transforming role the Central Artery project played in our region and the need for engineers to be creative solving problems with greater economic efficiency. Representative Pignatelli suggested the state implement a cookie-cutter small bridges program to help municipalities replace small bridges (less than 20 foot spans) faster and more economically. Overall the panel was a huge success and BSCES would like to thank the panelists for their participation.



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Recent News and Updates

"Sustainability in Civil Engineering Award"

Nominations are Due May 1, 2016

Until Sunday, May 1, 2016 the BSCES Committee on Sustainability will accept nominations for the 2016 *Sustainability in Civil Engineering Award*. Now in its second year, this award recognizes a Massachusetts civil engineering infrastructure project constructed within the last three years that exemplifies the principles of sustainability espoused by the Institute of Sustainable Infrastructure (ISI). For more information, please see the insert at the end of this newsletter or download the awards form from our website at [BSCES Sustainability Award Form](#).

BSCES Awards Nominations Deadline is May 16

Do you know a worthy award recipient? If so, then download, complete and submit the 2016 BSCES Employer Recognition and/or Section Awards form contained in this newsletter by the Monday, May 16, 2016 submission deadline. Created in 2006, the Large and Small Employer Recognition Awards are given to those organizations who exhibit exemplary support of ASCE and BSCES. The long-standing BSCES Section Awards are given to individuals who have made significant contributions to the profession and their communities.

Please see the awards nomination forms at the end of this month's newsletter for further details.

Have Something To Say?

ASCE has recently launched a Speakers Bureau. This online registry is a repository of ASCE members that are subject matter experts. The program developed matches speakers with those who are looking to utilize one of the Society's strongest assets—its members' professional expertise. The Speakers Bureau makes that expertise available through a quality, online program now available as a benefit available only to ASCE members. [Click here](#) to check out the Speakers Bureau here.

Dream Big!

Shouldn't there be a movie about engineers and the projects they build? Of course there should! All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative, and amazing ways. *Dream Big*, a giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow. Combined with educational programs at leading institutions worldwide, *Dream Big* is designed to inspire students to pursue careers in engineering. The movie began production in October 2015 thanks to the Bechtel Corporation, which has signed on as the film's presenting sponsor. BSCES is coordinating with ASCE for the premiere of *Dream Big* at a giant-screen theater in Boston during Engineers Week, February 2017. [Click here](#) for more information.

New Faces in Civil Engineering—College Edition

Each year during National Engineers Week, ASCE announces the *2016 New Faces of Civil Engineering—College*. These New Faces are selected from numerous entries from around the globe. As with past years, Massachusetts is well represented! The University of Massachusetts—Lowell has two students that made the list: [Gabriel Gerardo Rojas Perez](#) and [Micah Strauss](#). Congrats to both of these young men and UMass-Lowell!

Now @ ASCE

In an effort to keep the membership informed about the activities at ASCE, they produced a video that provides a recap of what's happening *Now @ ASCE*—from a summit on sustainability, to the New Faces of Civil Engineering, to career advice from an expert and more. Watch and learn the latest Society news.

State House Visit

On Tuesday, May 10, 2016, engineers will visit the Massachusetts State House for our Annual Engineers and Land Surveyors Day. Sponsored by ACEC/MA, BSCES, and MALSCE, this event allows the design/engineering community to speak with a single voice on issues that matter to us. BSCES recognizes the need for our industry to participate in development of public policy and the legislative process as they relate to our infrastructure. This event is one of the best opportunities to influence legislators. We hope you can provide your time and expertise to make this a successful event. [Click here](#) for additional details and registration.

Social Media

Did you know that BSCES is "connected"? As the forms of communication continue to expand, BSCES is trying to keep up with all of the social media outlets. Our [twitter](#) account has over 300 followers from state agencies to engineering firms. We invite you to follow us and #BSCES if you attend one of our events. The BSCES [Facebook](#) page has over 900 "likes." The page is used to announce upcoming events, provides pictures galleries of some of our signature events, and sometimes shows the lighter side of engineering. Almost 1,800 individuals have connected with BSCES on [LinkedIn](#). This forum is used for meeting announcement and discussions that are more technical in nature. These sites, in addition to the [BSCES homepage](#), will provide information on upcoming events and highlight BSCES accomplishments.

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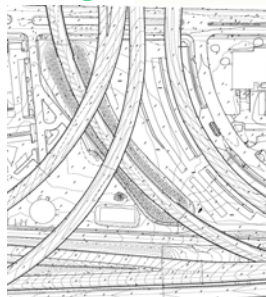
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EASTERN TOPOGRAPHICS



Upcoming Events

For more information and to register for events, please visit www.bsces.org

To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password.

If you do not know your BSCES member login information, call 617/227-5551.

Younger Member Group Volunteer Outing

Saturday, April 30, 2016

Middlesex Fells Reservation, Flynn Rink
30 Elm Street, Medford, MA 02155

9:00 AM – 1:00 PM

Middlesex Fells Reservation Clean-Up

Prepare the Middlesex Fells Reservation for another season of hiking, canoeing, and generally enjoying nature. Located less than 10 miles north of downtown Boston, the Fells has fields, ponds, and woods, which make it a precious resource for those who enjoy spending time outdoors. We'll likely be removing buckthorn—an invasive species—and restoring hiking paths.

Please see the Insert at the end of this month's newsletter for further details.

EWRI Boston Chapter & YMG Event

Wednesday, May 4, 2016

Nitsch Engineering
2 Center Plaza, Suite 430, Boston, MA
5:30 PM – 6:30 PM Registration/Networking Reception; 6:30 PM – 8:00 PM Presentation

The History of the MWRA

Fred Laskey, Executive Director, Massachusetts Water Resources Authority (MWRA)

Join the Younger Member Group, EWRI Boston Chapter and MWRA Executive Director Fred Laskey, for a presentation on the history of the Massachusetts Water Resources Authority, with food and beverages provided by Nitsch Engineering.

Please see the Insert at the end of this month's newsletter for further details.

Spring Awards Banquet

Tuesday, May 10, 2016

Framingham State University
D. Justin McCarthy Center
100 State Street, Framingham, MA

5:30 PM Social/Registration

6:30 PM Dinner

7:00 PM Presentation

ASCE President-Elect Norma Jean Mattei, PhD, F.SEI, M.COPRI, M.ASCE

Professor, University of New Orleans Department of Civil & Environmental Engineering

Join us as we celebrate the civil engineering profession and the dedication of professionals and young individuals who have strived for excellence this year. ASCE President-Elect Norma Jean Mattei will deliver the dinner's keynote address. Winners will be honored for the Ralph Salvucci Online Bridge Contest, the Model Bridge Competition, and the New England Regional Future City Competition, as well as the Herzog Award.

Please see the Insert at the end of this month's newsletter for further details.

SEI Boston Chapter Event

Monday, May 16, 2016

Transportation Building
10 Park Plaza, 2nd Floor
Conference Room Nos. 2 and 3, Boston, MA

8:15 AM Registration

8:30 AM Start

12:00 – 1:00 PM Lunch

4:30 PM Adjourn

MassDOT LRFD Bridge Manual Workshop

Alexander K. Bardow, PE, State Bridge Engineer, Massachusetts Department of Transportation
Joseph P. Gill, PE, President, Gill Engineering Associates, Inc.

Bryan Busch, PE, Director of Structural Engineering, CME Associates, Inc.

The workshop is intended to provide an overview of the significance, and the rationale behind Part I of the 2013 MassDOT LRFD Bridge Manual: new methods for dead load distribution, seismic design, bearing design, and integral abutment design. It will also include discussion on certain items that may be re-evaluated and modified for inclusion in future Bridge Manual revision(s), and the reasoning for those changes.

Please see the Insert at the end of this month's newsletter for further details.

continued on page 12

Register Today!

Engineers and Land Surveyors Day at the State House

Tuesday, May 10, 2016

Join BSCES, ACEC/MA, and MALSCE at the State House on May 10 to present the engineering and land surveying industry's views to our state legislators. Discuss issues important to you as a professional and to you as a citizen.

For up-to-date details, or to register for Engineers and Land Surveyors Day, [click here](#).

Mark Your Calendar!

Saturday, May 14, 2016

2016 Infrastructure Day To Celebrate Holyoke's Dam and Canals

This is a free event which all BSCES members are welcome and encouraged to attend. For more information, [click here](#).

ASCE Webinars

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For a full listing of ASCE Webinars, [click here](#).

Upcoming Events *(continued from page 11)*

2016 Bertram Berger Seminar

Friday, May 20, 2016

Courtyard by Marriott Boston Downtown
275 Tremont Street, Boston, MA

8:00 AM Registration

8:30 AM Panel Discussion

11:45 AM Social

12:15 PM Luncheon, Bertram Berger Tribute,
Keynote Address, and Awards

"A New Focus for Growth around the Commonwealth"

*Thomas Tinlin, Highway Administrator,
MassDOT Highway Division*

This annual seminar and luncheon is dedicated to the memory of Bertram Berger, a past president of BSCES who was honored for his contributions to ASCE and BSCES with the establishment of a memorial fund. Organized under the theme of "A New Focus for Growth around the Commonwealth" the 2016 Bertram Berger Seminar will feature two panel discussions. The first, entitled "Planning for Sustainable Smart Growth" is moderated by Luisa Paiewonsky, director of infrastructure systems and technology, Volpe. The second, entitled "Mega Projects in This New Era" is

moderated by Mark Boyle, assistant general manager of real estate and asset development, MBTA. The seminar luncheon will feature a keynote address by Thomas Tinlin, highway administrator, MassDOT Highway Division.

Please see the Insert at the end of this month's newsletter for further details.

Southeastern MA Committee Event

Friday, May 20, 2016

Abington Ale House
1235 Bedford Street, Abington, MA

7:00 AM – 7:45 AM Registration/Continental
Breakfast; 8:00 AM – 11:00 AM Presentation

Enforceable Contract Clauses That Protect Your Work (and Your Future)

*Robert Pellegrini, Esq., President, Pellegrini
Keogh Law*

This Southeastern MA Committee sponsored morning presentation features Robert Pellegrini Esq., an expert in permitting and real estate law. Following breakfast, Attorney Pellegrini will discuss contract clauses in regards to engineers and professional practitioners.

Please see the Insert at the end of this month's newsletter for further details.

SEI Boston Chapter & YMG Event

Wednesday, June 1, 2016

Bell in Hand Tavern
45 Union Street, Boston, MA

6:00 PM Registration, Refreshments, Networking
7:00 PM Structural Engineering Feud

Structural Engineering Feud

Hosted by Brian Brenner, PE, Stantec

Come and join us for an evening full of networking and fun. The Structural Engineering Feud will include a Family Feud style contest with the questions based on structural engineering themes. You can choose to register as a team of five, have us assign you a team, or just come by as a spectator to meet some friends and have a few laughs!

Please see the Insert at the end of this month's newsletter for further details.

Thomas Camp Lecture

Thursday, June 2, 2016

Wyndham Boston Beacon Hill
5 Blossom Street, Boston, MA

5:45 PM Social/Registration

6:30 PM Dinner

7:00 PM Presentation

Strategies for Managing 21st Century Water Challenges

*H. Curtis "Curt" Spalding, Administrator for
EPA's New England Region (Region 1)*

Curt Spalding, USEPA Region One Administrator, will talk about how challenges like climate change are impacting water management issues throughout New England. EPA New England has worked through some of these challenges with more holistic and comprehensive approaches to protect some of our most iconic resources.

Please see the Insert at the end of this month's newsletter for further details.

Save the Date!

Thursday, June 9, 2016

2016 Joseph C. Lawler Lecture Panama Canal Supersized

*Sponsored by the
Engineering Management Group*

Featuring: Joe Adams

President of Energy and Industry Division
MWH Global

Please see the Insert at the end of this month's newsletter for further details.

Purchase Tickets Now!

Wednesday, May 25, 2016

YMG Red Sox Outing

Fenway Park:

Red Sox vs. Colorado Rockies

Please see the Insert at the end of this month's newsletter for further details.

Classifieds

City of Lawrence, Massachusetts

The City of Lawrence, Massachusetts is searching for a **Director of Public Works**. In this role you will provide quality service to the residents of Lawrence. The DPW provides clean, safe, potable drinking water, maintenance of infrastructure

with upgrades to roadways, sidewalks, park maintenance and upkeep of the water and sewer system. The Director oversees the City's Recreation Department, supervises the Recycling Division, and is responsible for day to day operations of the

Parks, Streets, Water, Sewer, Building & Facilities, Engineer, Fleet, and Administration Division. Visit www.cityoflawrence.com/dpw-search.aspx, or forward resume to fbonet@cityoflawrence.com subject: DPW Search Committee.

Harriman is seeking a **Civil Engineer** to serve in a design and project management role in our Boston, Southern NH or Auburn, Maine office. The ideal candidate is a self-starting individual looking to align personal career aspirations with Harriman's vision and mission. This individual will be responsible for business development and outreach in the New England area. You'll be working on a variety of project types and coordinating with Harriman's architects, engineers, urban designers and landscape architects. Minimum of 7 years of related experience, if interested please go to our website at www.harriman.com to see the full job description.

Harriman is one of northern New England's largest A/E firms, with a commitment to excellence that began in 1870, and a reputation for award-winning designs throughout the region. We offer competitive salaries and a full benefits package including medical, dental, 401k program and a friendly collaborative work environment. Harriman is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or veteran status.





Boston Society of Civil Engineers Section
American Society of Civil Engineers



BOSTON SOCIETY OF
CIVIL ENGINEERS SECTION

Volunteer day!



Middlesex Fells Reservation Clean-Up

BSCES Younger Member Group

Saturday, April 30, 2016

Middlesex Fells Reservation

Flynn Rink, 30 Elm Street, Medford, MA 02155

9:00 AM – 1:00 PM

Prepare the Middlesex Fells Reservation for another season of hiking, canoeing, and generally enjoying nature. Located less than 10 miles north of downtown Boston, the Fells has fields, ponds, and woods, which make it a precious resource for those who enjoy spending time outdoors. We'll likely be removing buckthorn—an invasive species—and restoring hiking paths.

Email BSCESYMGB@gmail.com to RSVP by Monday, April 25, 2016.



Boston Society of Civil Engineers Section
American Society of Civil Engineers



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE
Boston Chapter

The History of the MWRA

Fred Laskey

*Executive Director, Massachusetts
Water Resources Authority (MWRA)*

Wednesday, May 4, 2016

**Nitsch Engineering, 2 Center Plaza
Suite 430, Boston, MA**

Registration/Networking 5:30 PM – 6:30 PM;

Presentation 6:30 PM – 8:00 PM

(Parking in building: 75 Somerset St, Boston)

Join the Younger Member Group, EWRI Boston Chapter and MWRA Executive Director Fred Laskey, for a presentation on the history of the Massachusetts Water Resources Authority, with dinner and beverages provided by Nitsch Engineering.

For more information, contact bscesymg@gmail.com.

Registration Deadline:

Friday, April 22, 2016

\$10 Members, \$15 Non-Members

Information/Registration:

Register to attend this meeting and pay by credit card online at http://bit.ly/YMG_05416. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after April 22, 2016 and no-shows will be billed.





Boston Society of Civil Engineers Section
American Society of Civil Engineers

Public
Awareness
& Outreach
Committee



TRANSPORTATION
& DEVELOPMENT
INSTITUTE
Boston Chapter

The Spring Awards Banquet

Keynote Speaker:

ASCE President-Elect Norma Jean Mattei, PhD, F.SEI, M.COPRI, M.ASCE
Professor, University of New Orleans
Department of Civil & Environmental Engineering

Tuesday, May 10, 2016

Framingham State University, D. Justin McCarthy Center, 100 State Street, Framingham, MA
5:30 PM Social/Registration; 6:30 PM Dinner; 7:15 PM Presentation

Join us as we celebrate the civil engineering profession and the dedication of professionals and young individuals who have strived for excellence this year. We will be honoring the student winners of the Ralph Salvucci Online Bridge Contest, the Model Bridge Competition, and the New England Regional Future City Competition. We will also be honoring professional engineers who have achieved excellence with BSCES Lifetime Membership and the Herzog Award. ASCE President-Elect Norma Jean Mattei will deliver the dinner's keynote address. This year's Herzog Award winner will be revealed at the dinner and there will be a presentation of the winning paper by the author.

Registration Deadline: Thursday, May 5, 2016

\$40 BSCES Members, \$50 Non-Members

\$35 Public Sector Members, \$45 Public Sector Non-Members

\$25 Senior Members (+65), \$25 Student Members

\$400 Table of 10

Information/Registration:

Register to attend this event and pay by credit card on the BSCES website at http://bit.ly/BSCES_SpringAwards2016. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617-227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after May 5, 2016 and no-shows will be billed.



Boston Society of Civil Engineers Section
American Society of Civil Engineers



STRUCTURAL
ENGINEERING
INSTITUTE

Boston Chapter

MassDOT LRFD Bridge Manual Workshop

Alexander K. Bardow, PE

State Bridge Engineer, Massachusetts Department of Transportation

Joseph P. Gill, PE

President, Gill Engineering Associates, Inc.

Bryan Busch, PE

Director of Structural Engineering, CME Associates, Inc.

Monday, May 16, 2016

Transportation Building, 10 Park Plaza, 2nd Floor, Conference Room Nos. 2 and 3, Boston, MA

8:15 AM Registration; 8:30 AM Start; 12:00-1:00 PM Lunch; 4:30 PM Adjourn

This workshop is an encore of the Fall 2014 workshop of the same name and is geared towards younger practicing members currently designing bridges for MassDOT. It will primarily focus on how to design bridge elements using Part I of the 2013 MassDOT LRFD Bridge Manual. The workshop is intended to provide an overview of the significance, and the rationale behind the changes including: new methods for dead load distribution, seismic design, bearing design, and integral abutment design. It will also include discussion on certain items that may be re-evaluated and modified for inclusion in future Bridge Manual revision(s), and the reasoning for those changes.

A morning and afternoon refreshment will be provided. Lunch will be the attendee's responsibility.

Registration Deadline: Wednesday, May 11, 2016

\$50 Members, \$65 Non-Members

\$40 Public Sector Members, \$45 Public Sector Non-Members

\$20 Student Members and Senior Members (65+)

Information/Registration:

Register to attend this meeting and pay by credit card online at <http://bit.ly/SEI051616>. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after May 11, 2016 and no-shows will be billed.



Boston Society of Civil Engineers Section
American Society of Civil Engineers



TRANSPORTATION
& DEVELOPMENT
INSTITUTE
Boston Chapter

2016 Bertram Berger Seminar “A New Focus for Growth around the Commonwealth”

Keynote Speaker:

Thomas Tinlin

Highway Administrator, MassDOT Highway Division

Friday, May 20, 2016

Courtyard by Marriott Boston Downtown, 275 Tremont Street, Boston, MA

8:00 AM Registration; 8:30 AM Panel Discussion; 11:45 AM Social

12:15 PM Luncheon, Bertram Berger Tribute, Keynote Address, and Awards

Panel 1: Planning for Sustainable Smart Growth

Moderator: Luisa Paiewonsky, Director, Infrastructure Systems and Technology, U.S. DOT/Volpe Center

Panelists: Tim Reardon, Metropolitan Area Planning Council

Sara Myerson, Executive Director of Planning, Boston Redevelopment Authority

Paul Nelson, Senior Transportation Planner, Medical Academic and Scientific Community Organization

Iram Farooq, Assistant City Manager, Cambridge Community Development

Panel 2: Mega Projects in This New Era

Moderator: Mark Boyle, Assistant General Manager of Real Estate and Asset Development, MBTA

Panelists: Mike O'Dowd, Project Manager, MassDOT Highway Division

Joseph Beggan, Senior Manager of Transportation, Harvard Planning Department

Thomas Glynn, Chief Executive Officer, Massachusetts Port Authority

Richard Dimino, President & CEO, A Better City

Registration Deadline: Monday, May 16, 2016

\$100 Members, \$125 Non-Members

\$85 Public Sector Members, \$110 Public Sector Non-Members

\$75 Senior Members, \$35 Students

Half Table (5 Guests): \$500 (\$425 for Public Sector)

Full Table (10 Guests): \$1,000 (\$850 for Public Sector)

Information/Registration:

Register to attend this meeting and pay by credit card online at <http://bit.ly/TDI052016>. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after Monday, May 16, 2016 and no-shows will be billed.

Enforceable Contract Clauses That Protect Your Work (and Your Future)

Robert Pellegrini, Esquire
President, Pellegrini Keogh Law

Friday, May 20, 2016

Abington Ale House – 1235 Bedford Street, Abington, MA

7:00 AM – 7:45 AM Registration/Continental Breakfast; 8:00 AM – 11:00 AM Presentation

Engineers are increasingly under pressure to give in to clients' demands to reduce fees and release work product due to the pressure in our highly competitive industry. But how does the successful engineer address these demands and preserve potential revenue generation?

Knowing your legal rights can help you determine what to protect, how to protect it, and how much time you have to make a claim. Join Robert Pellegrini, Esq., Pelligrini Keogh Law, who will guide you through common mistakes and pitfalls that can cost engineers millions - and opportunities to reap additional income that's rightfully theirs.

Prior to starting his private practice in Bridgewater, Attorney Pellegrini served as Senior Attorney for Cumberland Farms, Inc. and Gulf Oil, where he was primarily responsible for permitting and real estate, including site selection and acquisition, project team selection, schematic design, construction law, contracts, and related litigation. Robert has represented clients before the Architectural Access Board (ADA issues) and with respect to the Petroleum Marketers Act.

Who should attend? Principal engineers, project managers, engineers of all disciplines, and professional practitioners who are responsible for entering into contractual agreements for professional service.

Registration Deadline: Monday, May 16, 2016

\$50 Members, \$60 Non-Members

\$40 Public Sector Members, \$50 Public Sector Non-Members

\$35 Senior Members (65+) & Students

Information/Registration:

Register to attend this meeting and pay by credit card online at <http://bit.ly/SEMAC52016>. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after **Monday, May 16, 2016** and no-shows will be billed.



Please join us!

BSCES YMGB Red Sox Game at Fenway Park

Wednesday, May 25, 2016

Boston Red Sox vs. Colorado Rockies

7:10 PM

Fenway Park

4 Yawkey Way, Boston, MA 02215

Bleacher Section 38

\$30 per ticket

Pricing:

Students - \$25/ticket

Members - \$30/ticket

Non-members - \$35/ticket

To Register:

Register to attend this outing and pay by credit card online at <http://bit.ly/1pgwaIO>. To register online at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. Tickets will be handed out at pregame social. Details for a pregame social will be emailed to the group two weeks prior to the game. Food will be included at the social. Here's to a great 2016 season!



Structural Engineering Feud

Based on Family Feud TV Show; but, with Structural Engineers

Hosted by not Richard Dawson or Steve Harvey

But, our very own Brian Brenner, PE

Associate, Stantec

Wednesday, June 1, 2016

Bell in Hand Tavern, 45 Union Street, Boston, MA

6:00 PM Registration, Refreshments and Networking

7:00 PM Structural Engineering Feud

Come and join us for an evening full of networking and fun. The Structural Engineering Feud will include a Family Feud style contest with the questions based on structural engineering themes. You can choose to register as a team of five, have us assign you a team, or just come by as a spectator to meet some friends and have a few laughs! Please indicate your choice during registration. For participants who wish to register as a team of five, one team member from each team must email Shahvir Vimadala (shahvir@yahoo.com) their team name along with a list of team members after completing their online registration. Winning teams will receive prizes.

Appetizers will be served. Cash Bar.

Registration Deadline: Friday, May 27, 2016

\$30 Members, \$40 Non-Members

\$25 Public Sector Members, \$30 Public Sector Non-Members

\$10 Student Members and Senior Members (65+)

Information/Registration:

Register to attend this meeting and pay by credit card online at http://bit.ly/SEIYMG_6116. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after Registration Deadline May 27, 2016 and no-shows will be billed.

2016 Thomas R. Camp Lecture ***Strategies for Managing 21st Century Water Challenges***

H. Curtis "Curt" Spalding

Administrator for EPA's New England Region (Region 1)

Thursday, June 2, 2016

Wyndham Boston Beacon Hill, 5 Blossom Street, Boston, MA

5:45 PM Social/Registration; 6:30 PM Dinner; 7:00 PM Presentation

Curt Spalding, USEPA Region One administrator, will talk about how challenges like climate change are impacting water management issues throughout New England. EPA New England has worked through some of these challenges with more holistic and comprehensive approaches to protect some of our most iconic resources.

Curt Spalding has extensive experience in the environmental protection field as an advocate, policy analyst and administrator. For almost 20 years, he served as executive director of Save the Bay in Rhode Island, a nationally recognized, 20,000-member environmental advocacy and education organization. Since joining the EPA leadership team in February 2010, Spalding has been leading a holistic approach to finding environmental solutions in New England. He's emphasized efforts in community engagement, sustainability, environmental justice and green economy.

This talk should be attended by anyone with an interest in Water Resources, Sustainability and Climate Change including civil engineers, architects, planners, state and municipal administrators.

Registration Deadline: Friday, May 27, 2016

\$90 Members, \$115 Non-Members

\$75 Public Sector Members, \$90 Public Sector Non-Members

\$30 Senior Members (65+), Students

\$900 Table of 10

Information/Registration:

Register to attend this meeting and pay by credit card online at <http://bit.ly/EWRI060216>. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after May 27, 2016 and no-shows will be billed.



Boston Society of Civil Engineers Section
American Society of Civil Engineers



ENGINEERING
MANAGEMENT GROUP

Save the Date!

2016 Joseph C. Lawler Lecture Panama Canal Supersized

Joe Adams, MWH Global

President of Energy and Industry Division

Thursday, June 8 or 9, 2016

Venue TBD

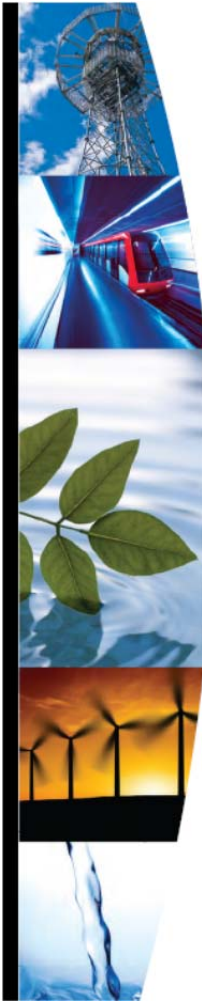
5:30 PM Social/Registration; 6:30 PM Meal; Presentation to Follow



Joseph C. Lawler

The expansion of the Panama Canal Locks is a construction and engineering marvel. The canal expansion utilized over 10,000 workers, more concrete than the Hoover Dam, and approximately 25 times the amount of steel used to erect the Eiffel Tower. Mr. Adams is the Chairman of the Design Consortium for the Third Set of Locks which makes up \$3.2 billion of the \$5 billion dollar Panama Canal Expansion. The Consortium is composed of MWH Global, Tetra-Tech and Iv Infra from the Netherlands. He is a graduate of Worcester Polytechnic Institute, a member of the MWH board of directors, and has over 35 years of experience in engineering, construction, and project management.

If you are unable to make this year's Lawler Lecture, watch the History Channel's Modern Marvel titled "Panama Canal Supersized" for more information on this mega project.



2016 SUSTAINABILITY IN CIVIL ENGINEERING AWARD

Call for Entries

The purpose of the Sustainability in Civil Engineering Award is to recognize civil engineering infrastructure projects that embody the principles of sustainability espoused by the BSCES Committee on Sustainability, ASCE, and the Institute for Sustainable Infrastructure (ISI). Such projects prominently and creatively incorporate the five sustainability indicators of quality of life, leadership, resource allocation, natural world, and climate risk.

Eligibility

To be eligible, a project must demonstrate adherence to the principles of economic, social and environmental sustainability as identified by ASCE/ ISI criteria for sustainable infrastructure. **The project must have been designed by a team of civil engineers based in Massachusetts, and must have been constructed within the last five years.**

Rules for Submission

1. Entries for the award must include:
 - A completed Entry Form ([BSCES Sustainability Award Form](#))
 - A printout of the Envision™ project assessment scoring table from the ISI website completed by an Envision Sustainable Professional (ENV SP).
2. **Entries must be submitted no later than May 1, 2016.** The winner will be announced at the BSCES Annual Awards Dinner event in the Fall of 2016. Entries may be submitted electronically to wognibene@engineers.org.

2015 BSCES Sustainability in Civil Engineering Award Winner

The 2015 award was presented to the City of Cambridge for its **Alewife Stormwater Wetland** project, which embodies the concept of multi-use and sustainable infrastructure. The project was originally conceived as a concrete storage tank to serve a 420 acre neighborhood as a result of court-ordered combined sewer separation. Through broad stakeholder involvement, the project transformed into an “environmental miracle” that restored wildlife habitat and added features for the general public’s use and improved quality of life.



Read about the Alewife Stormwater Wetland in the [BSCES October Newsletter](#)

2016 INDIVIDUAL SECTION AWARDS

Each year, BSCES presents awards to deserving individuals in the Section or in the community who are nominated by their peers in recognition of their service. **Here is your opportunity to nominate a co-worker, friend, or someone who you think deserves special recognition.** To submit a nomination, complete this form and return it to:

**BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE,
The Engineering Center, One Walnut Street, Boston, MA 02108-3616**

The Nominations Deadline is **Monday, May 16, 2016**. The Awards Committee will review all nominations and present a list of candidates for selection by the Board of Government at their May meeting. Awards will be presented at the 168th BSCES Annual Awards Dinner in the fall.

I would like to nominate _____ For the:

_____ **CITIZEN ENGINEER AWARD:** This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

_____ **LESTER GAYNOR AWARD:** This award is presented to a BSCES member or registered professional engineer for part-time elected or appointed service as a city or town official, whose reimbursement for this service has not been more than an honorarium.

_____ **GOVERNMENT CIVIL ENGINEER AWARD:** This award is presented to a BSCES member who is serving as a paid public sector engineer at a federal, state, or municipal agency, department, or authority in Massachusetts.

_____ **CLEMENS HERSCHEL AWARD:** This award recognizes those individuals who have published papers, not necessarily published in the BSCES Journal, that have been useful, commendable, and worthy of grateful acknowledgment. If nominating for the Clemens Herschel Award, please attach the name of the paper and names of all authors, if co-authored.

_____ **RALPH HORNE AWARD:** This award is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

_____ **JOURNALISM AWARD:** This award is to be presented to a member of the media who reports on engineering topics, particularly civil engineering, in a manner that benefits the profession. The Public Awareness and Outreach Committee reviews these nominations and recommends the recipient to the Board.

_____ **PRE-COLLEGE EDUCATOR AWARD:** This award is to be presented to a member of the K-12 educational community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career. The Public Awareness and Outreach Committee reviews these nominations and recommends the recipient to the Board.

_____ **TECHNICAL GROUP AWARD:** This award is given for papers which have been presented at a Technical Group meeting or for papers that were submitted to a Technical Group for review and recommended for publication by its Executive Committee. Each paper should be original (i.e., not contributed or published elsewhere). This award is open to all BSCES members.

_____ **YOUNGER MEMBER AWARD:** This award is intended to recognize a member, 35 years of age or younger on February 1 in the year of the award, who has made an outstanding contribution to BSCES.

Name and Company Address of Nominee(s)*:

Is this a re-nomination? Yes _____ No _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: _____ Daytime Telephone: _____ Email: _____

NOTE: If you nominated someone last year who was not selected, you may re-nominate the individual(s).

QUESTIONS: Contact BSCES Awards Committee Chair Bruce Jacobs at (617) 879-0253 or bjacobs@hydroanalysisinc.com.



*Boston Society of Civil Engineers Section
American Society of Civil Engineers*

2016 EMPLOYER RECOGNITION AWARDS

To Publicly Reward Employers for Exemplary Employee Support

The Boston Society of Civil Engineers Section of the American Society of Civil Engineers Awards Committee invites you to nominate an organization to receive the Small Employer Recognition Award or the Large Employer Recognition Award. Please see the following awards description and page 2 of this form for nomination instructions. To be eligible to receive this award your award nomination must be received by the BSCES Awards Committee no later than Monday, May 16, 2016.

As a means of fostering participation in Society activities, the Boston Society of Civil Engineers Section/ASCE has established an award to recognize those employers who encourage their engineers to actively participate in ASCE and BSCES. Special recognition will go to those organizations who exhibit exemplary support as evidenced by:

- Providing a model for involvement through organization-wide participation in local, regional, and national ASCE and BSCES activities.
- Allowing engineers time off to attend ASCE and BSCES meetings and seminars.
- Being sponsors of ASCE and BSCES meetings/ seminars or being sponsors of the BSCES Newsletter.
- Supporting and encouraging technical and professional growth.
- Encouraging engineers to prepare articles for publication in the BSCES Newsletter or ASCE and BSCES professional and technical journals.
- Assisting in the payment of ASCE and BSCES dues.

Members who want their organization to be considered for recognition should fill out the attached nomination form which describes their organization's level of support to ASCE and BSCES. The awards committee will review the nominations and select an exemplary small employer and a large employer in the Section. Organizations with less than 50 employees are eligible for the Small Employer Award. Awards will be presented at the 168th BSCES Annual Awards Dinner in the fall. Successful recipients will be considered for endorsement as potential (future) applicants for the ASCE Employer Recognition Award. No organization will be eligible to receive the award in consecutive years.

NAME OF EMPLOYER: _____

Boston Society of Civil Engineers Section/ASCE 2016 EMPLOYER RECOGNITION AWARDS

Complete and return this nomination form and attachment to the BSCES Awards Committee no later than Monday, May 16, 2016 to be eligible for the award.

Nominator/Title: _____

Address: _____

Telephone: _____ Email: _____

Signature: _____ Date: _____

Employer: _____

Contact Person: _____

Title: _____

Office Address: _____ Website: _____

Telephone: _____ Email: _____

Please answer the following questions:

How many employees do you have? _____

How many are civil engineers? _____

How many civil engineers are members of ASCE?	BSCES?
_____	_____

How many times in the last year have you provided sponsorship of BSCES meetings/seminars or sponsorship of the BSCES Newsletter? _____

Please attach a list of ASCE and BSCES Members in your organization.

For those engineers who are ASCE and BSCES Members, please answer the following questions:

What percentage of ASCE and BSCES dues are paid by the employer? _____

Does the employer pay for subscriptions to ASCE and BSCES technical or professional journals? _____

On average, how many Technical/Professional seminars (one day or longer) does each of your engineers attend annually? _____

Does the employer allow time for members to attend ASCE and BSCES activities? _____

How many technical/professional articles were published by your engineers within the last two years? _____

How many of your engineers are active on an:

BSCES Board of Government _____

BSCES Technical Group or Committee _____

ASCE Regional (District) Council _____

ASCE National Committee _____

Please attach one 8.5 x 11 inch sheet (double sided) and describe any specific activities or policies which demonstrate your organization's support for involvement in ASCE and BSCES.

Please return this completed form and the additional page if needed no later than Monday, May 11, 2015 to: BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616. For questions contact BSCES Awards Committee Chair Bruce Jacobs at (617) 879-0253 or bjacobs@hydroanalysisinc.com.

Thank you for your continued support of ASCE and BSCES.