2016 OUTSTANDING SECTION / BRANCH AWARD NOMINATION FORM

Applications are limited to 12 pages plus a copy of one newsletter.
Please mail an electronic submittal (pdf files preferred) to Nancy Berson at ASCE:
nberson@asce.org by October 30, 2016.

BASIC INFORMATION:

<table>
<thead>
<tr>
<th>Award Classification (check one):</th>
<th>☑ Very Large Section/Branch (&gt; 2500 members)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Large Section/Branch (1001-2500 members)</td>
<td></td>
</tr>
<tr>
<td>☐ Medium Section/Branch (501-1000 members)</td>
<td></td>
</tr>
<tr>
<td>☐ Small Section/Branch (&lt; 500 members)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section/Branch Nominee:</th>
<th>Boston Society of Civil Engineers</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Name and Board Position of Contact Member:</th>
<th>Christopher Smith – Vice President</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ASCE Member ID:</th>
<th>494663</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address:</th>
<th>One Walnut Street, Boston, MA 02108</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Telephone:</th>
<th>617-227-5551</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>E-mail:</th>
<th><a href="mailto:Topher.R.Smith@gmail.com">Topher.R.Smith@gmail.com</a></th>
</tr>
</thead>
</table>

NOMINATION QUESTIONS/SCORING

100 points maximum

10 points each in Categories A to G and 30 points in Category H

Each event/activity may only be used once. Please select the most appropriate category.

A. COMMUNICATION WITH MEMBERS (10 Points Maximum)

Newsletter (1 point per newsletter, 4 points maximum):

<table>
<thead>
<tr>
<th>Number of Newsletters Published Annually:</th>
<th>Ten (10)</th>
</tr>
</thead>
</table>

Please include one newsletter with the Award nomination package.

Website (3 points maximum):

<table>
<thead>
<tr>
<th>Website URL:</th>
<th><a href="http://www.bsces.org">www.bsces.org</a></th>
</tr>
</thead>
</table>

Discuss the content included on your website:

BSCES executed a comprehensive upgrade of the website in 2016. The new site is more user-friendly and is supported on mobile platforms. The website provides valuable information to BSCES members as well as anyone inquiring about the society and its undertakings. The website is easy to navigate and provides links to technical resources, membership services, volunteer opportunities, news and publications, award applications, and event registration. The website includes links to the committees, institute chapters,
technical groups, and ASCE's website. BSCES maintains an additional easy to remember website for its Public Awareness & Outreach Committee (www.engineeryourfuture.org) as a catchall for all our events, activities, groups, and to facilitate contact with volunteers and schools. The “News” section of the site includes up to date information about ASCE and BSCES activities. BSCES has undertaken the redesign of the website to improve accessibility to information. The website committee met several times over the past year to plan the design changes and a contractor was engaged to develop an entirely new website.

Other Tools (3 points maximum):

Facebook, LinkedIn and Twitter – BSCES continues to increase activity and membership on social media sites. With ASCE assistance, in 2016, a new Social Media Policy was developed to provide guidance for the use of such media outlets. The Facebook page “Boston Society of Civil Engineers Section – ASCE” includes basic information about the society and lists events. The LinkedIn group also lists events and has 1,778 members. BSCES also posts videos related to projects and outreach activities on You Tube and posts events on Twitter @BSCES. Separate LinkedIn group and Twitter accounts are maintained for the Younger Member Group and the Public Awareness & Outreach Committee to focus on their activities.

Newsletter – BSCESNews, the Society's membership newsletter, is produced as a PDF document and distributed via email with a website link ten (10) times each fiscal year. BSCESNews includes articles covering an array of professional and technical topics including project overviews, industry trends, legal issues, legislative matters, member profiles, Society events, and outreach activities. A copy of the September 2016 Newsletter can be viewed here: http://www.bsces.org/news/bsces-newsletter/september-2016-issue-441

Journal – In order to expand readership, the BSCES technical journal, Civil Engineer Practice, has been redesigned as an online journal. The journal receives papers from authors across the country and internationally for review and possible publication. The Journal format and content has been expanded and an electronic version of the publication is being pursued.

Broadcast Emails – BSCES sends broadcast emails approximately two times per week to the membership to promote the events and activities that BSCES sponsors.

B. PROFESSIONAL / LEADERSHIP ACTIVITIES, AWARDS / RECOGNITION, AND SCHOLARSHIPS (10 Points Maximum)

Professional / Leadership Activities (5 points maximum):

Professional / Leadership (non-Technical) Committees (1 point each, 2 points maximum)

<table>
<thead>
<tr>
<th>Professional Committee:</th>
<th>Number of Meetings:</th>
<th>Presentation Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Management Group</td>
<td>3</td>
<td>The Engineering Management Group conducts several meetings per year on a variety of management topics. Events topics include: leadership, project management, professional development, risk management, ethics, and sustainability.</td>
</tr>
</tbody>
</table>
This committee provides leadership and guidance to the BSCES Board relative to federal and state policy and legislative issues. The committee meets monthly to review and discuss pending legislation and submits articles to the monthly newsletter.

**Subcommittees:** Comprehensive Adaptation Management Action Planning in Response to Climate Change (CAMP), Economic Study and Annual Infrastructure Day.

**Tracked key state legislation:** 1) Transportation Funding, 2) Comprehensive Adaptation Management Action Planning in Response to Climate Change (CAMP), 3) Water Coalition, 4) MBTA Sustainability, 5) Changes to Toll Collection, 6) Water P3 Legislation

Following direction given by the Board of Government, the Past Presidents Committee focus this year was to evaluate trends with the BSCES annual budget and make recommendations for proposed improvements. The committee has proposed several improvements which are currently being evaluated and considered by the Board of Government for implementation.

### Professional / Leadership (non-Technical) Seminars / Courses (1 point each, 3 points maximum)

<table>
<thead>
<tr>
<th>Date:</th>
<th>Approx. Attendees</th>
<th>Presentation Topics / Describe Seminar:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various</td>
<td>30-50</td>
<td>Presentations to student members on leadership, management, networking, and the merits of ASCE/professional association membership. Younger Member Group received a STAY Grant to host a student information session and develop a student handbook containing information on starting a career in civil engineering.</td>
</tr>
<tr>
<td>January 14, 2016</td>
<td>60</td>
<td>Public Private Partnerships: Roundtable Discussion on the funding source with attorneys, financial advisors, asset managers, and engineers.</td>
</tr>
<tr>
<td>March 31, 2016</td>
<td>28</td>
<td>Dispute Resolution Board: Alternative Dispute Resolution Process that promotes conflict avoidance as well as timely and cost effective dispute resolution.</td>
</tr>
<tr>
<td>April 25, 2016</td>
<td>80</td>
<td>Presentation of the history of the water infrastructure in the City of Holyoke, Massachusetts. A networking social was included as part of the event and was attended by the Mayor of Holyoke and both candidates for ASCES President-Elect.</td>
</tr>
<tr>
<td>May 20, 2016</td>
<td>21</td>
<td>Enforceable Contract Clauses for Engineers – Half day seminar held in Abington, Massachusetts.</td>
</tr>
</tbody>
</table>

### Awards (1 point each, 2 points maximum):

#### Awards Given by the Section/Branch

<table>
<thead>
<tr>
<th>Name of Award</th>
<th>Recipient:</th>
<th>Describe:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Employer Recognition Award</td>
<td>Green International Affiliates, Inc.</td>
<td>This award recognized large employers who encourage their engineers to actively participate in ASCE and BSCES.</td>
</tr>
<tr>
<td>Citizen Engineer Award</td>
<td>Robert Schreiber, PE, BCEE, D.WRE</td>
<td>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.</td>
</tr>
<tr>
<td>Government Civil Engineer Award</td>
<td>Edmond Hunter</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clemens Herschel Award</th>
<th>Mehrdad Sasani, Leila Keyvani-Someh, Paul Kirshen, Richard M. Vogel, Lauren Caputo, Paul Mathisen, Ana Rosner, Tom Renaud</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Journalism Award</th>
<th>Rosabeth M. Kanter</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pre-College Educator Award</th>
<th>Kathleen Malone</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Younger Member Award</th>
<th>Alyson Stuer</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**Society Awards Received by the Section / Branch or its members**

<table>
<thead>
<tr>
<th>Name of Award:</th>
<th>Recipient:</th>
<th>Describe:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Section of the Year (ASCE National)</td>
<td>BSCES</td>
<td>Recognition for outstanding service to the local ASCE membership.</td>
</tr>
<tr>
<td>History &amp; Heritage Citation by ASCE National</td>
<td>BSCES</td>
<td>In recognition of the efforts made to celebrate the history of the civil engineering profession.</td>
</tr>
</tbody>
</table>

**Scholarships (3 points maximum):**

**Scholarships to High School Students (2 points maximum)**

<table>
<thead>
<tr>
<th>Name of Scholarship:</th>
<th>Amount of Scholarship:</th>
<th>Describe:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECET Engineers Week Scholarship</td>
<td>$5,000</td>
<td>As a sponsor of The Engineering Center Education Trust, three BSCES members served on the application review committee for this $5,000 scholarship that is awarded to a high school senior who intends to pursue an engineering or engineering technology degree</td>
</tr>
</tbody>
</table>

**Scholarships to College Students (1 point maximum)**

<table>
<thead>
<tr>
<th>Name of Scholarship:</th>
<th>Amount of Scholarship:</th>
<th>Describe:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bertram Berger Scholarship</td>
<td>$2,000</td>
<td>Given to an engineering student at the University of Massachusetts, Amherst and a student from the University of Massachusetts, Lowell</td>
</tr>
<tr>
<td>William P. Morse Scholarship</td>
<td>$500</td>
<td>Presented to Tufts University student pursuing a degree in engineering</td>
</tr>
<tr>
<td>Francis M. Keville Memorial Fund Scholarship</td>
<td>$5,000</td>
<td>Presented to student of Northeastern University in fields of transportation or construction management.</td>
</tr>
</tbody>
</table>
C. TECHNICAL ACTIVITIES (10 Points Maximum)

Section/Branch Technical Committees or Institutes (minimum of 2 technical meetings per year; 1 point each, 4 points maximum)

<table>
<thead>
<tr>
<th>Technical Committee:</th>
<th>Number of Meetings:</th>
<th>Presentation Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Institute Boston Chapter</td>
<td>2</td>
<td>• Millennium Tower (Old Filenes Building) tour</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• New Balance Job Site tour</td>
</tr>
<tr>
<td>COPRI Boston Chapter</td>
<td>3</td>
<td>• Preparing for a Flood: Resiliency at MassPort (Joint with EWRI).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Waterfront Facilities Inspections and Assessment Manual</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Assessing the Effects and Climate Change to the Massachusetts Central Artery and Beyond</td>
</tr>
<tr>
<td>EWRI Boston Chapter</td>
<td>4</td>
<td>• Preparing for a Flood: Resiliency at MassPort (Joint with COPRI).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• HEC-RAS 2D and GRASS GIS Hydraulic Model Workshops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The History of the MWRA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Strategies for Managing 21st Century Water Challenges</td>
</tr>
<tr>
<td>Geo-Institute Boston Chapter</td>
<td>2</td>
<td>• Port of Miami Tunnel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Jet Grouting in Challenging Environments. Methods and Risk Mitigation.</td>
</tr>
<tr>
<td>SEI Boston Chapter</td>
<td>8</td>
<td>• The State of Wicked Fast Bridge Construction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Detailing Wicked Fast Bridge Construction – Lessons Learned</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MassDOT Bridges Case Study</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MBTA Bridges Case Study</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Durability of Accelerated Bridge Construction Bridges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Kingdom Tower – A Megatall Building</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MassDOT LRFD Bridge Manual Workshop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Structural Engineering Feud</td>
</tr>
<tr>
<td>Engineering Management Group</td>
<td>3</td>
<td>• Public Private Partnerships</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Dispute Resolution Board</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Panama Canal Supersized</td>
</tr>
<tr>
<td>T&amp;D1I Boston Chapter</td>
<td>3</td>
<td>• Complete Streets Webinar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Massachusetts Transportation Program – A Legislative Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Berger Seminar – A New Focus for Growth around the Commonwealth</td>
</tr>
</tbody>
</table>

Technical Seminars / Courses Offered with PDHs (1 point each, 4 points maximum)

<table>
<thead>
<tr>
<th>Date:</th>
<th>Approx. Attendees:</th>
<th>Describe:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/10/15 to 10/27/15</td>
<td>29</td>
<td>Fall Professional Engineer Refresher Course</td>
</tr>
<tr>
<td>2/2/16 to 2/4/16</td>
<td>34</td>
<td>NHI Bridge Inspection Refresher Training</td>
</tr>
<tr>
<td>2/23/16 to 4/12/16</td>
<td>20</td>
<td>Spring Professional Engineer Refresher Course</td>
</tr>
<tr>
<td>3/1/16 to 3/2/16</td>
<td>29</td>
<td>NHI Inspection and Maintenance of Ancillary Highway Structures</td>
</tr>
<tr>
<td>4/4/16 to 4/12/16</td>
<td>28</td>
<td>NHI Safety Inspection of In-Service Bridges</td>
</tr>
<tr>
<td>4/18/16 to 4/22/16</td>
<td>30</td>
<td>NHI Tunnel Safety Inspection</td>
</tr>
<tr>
<td>6/20/16 to 6/24/16</td>
<td>30</td>
<td>NHI Tunnel Safety Inspection</td>
</tr>
</tbody>
</table>
### Other Technical / Educational Activities and Benefits for Section / Branch Members (2 points maximum)

<table>
<thead>
<tr>
<th>Describe other technical / educational activities and benefits for Section / Branch members:</th>
<th>(for example: hosting a user group for technical software used by Members)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>April 11, 2016</strong></td>
<td><strong>Freeman Lecture</strong>&lt;br&gt;This annual series co-sponsored by the BSCES Hydraulics and Water Resources Group and Ralph M. Parsons Laboratory for Water Resources and Hydrodynamics was held on April 11 at MIT. The topic of the 21st Freeman lecture was: <em>Desalination for Water Supply, Is Energy Consumption Manageable?</em> The lecture was attended by approximately 50 professionals and students.</td>
</tr>
</tbody>
</table>

### D. MEMBERSHIP (10 Points Maximum)

<table>
<thead>
<tr>
<th>Describe efforts to transition Student Members to Associate Members (2 points):</th>
<th>The BSCES Younger Member Group (YMG) oversees the operations of the BSCES Student Chapter Committee, which is comprised of volunteer members who function as student chapter liaisons. Each year BSCES hosts an ASCE Student Chapter Officers’ Caucus Fall Kickoff Meeting where Chapter officers, chapter liaisons and BSCES leaders gather for dinner and an evening of sharing information and learning about the benefits of ASCE and BSCES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe Member recruitment programs (2 points):</td>
<td>BSCES continues to increase activity on social media sites, (Facebook, Twitter, and LinkedIn).</td>
</tr>
<tr>
<td>Describe Member retention programs (2 points):</td>
<td>The Membership Committee grew to 11 members who met 8 times throughout the year. The focus of the membership committee’s efforts was to improve communications with members and to spur greater involvement and engagement. The committee sent out two surveys to gain a better understanding of what our members value as a BSCES member as well as to gather information from ASCE members who are not BSCES members as to why they aren’t members. Survey results were reviewed and a strategy was developed to improve membership. A presentation was developed for the purposes of presenting to firms to further increase membership and potential activity within BSCES.</td>
</tr>
<tr>
<td>Describe any recognition programs for employers supporting ASCE (2 points):</td>
<td>BSCES annually presents two Employer Recognition Awards to honor firms that are active in encouraging their employees to become active ASCE/ BSCES members and for supporting ASCE/ BSCES activities.</td>
</tr>
<tr>
<td>Describe other Membership Activities / Events (2 points):</td>
<td>A spring awards dinner was held which honored, among others, new ASCE and BSCES Life Members. Utilizing a report provided by ASCE, BSCES sends out welcome letters to new members of BSCES. A Website committee launched a new and improved website. The intent is for the website to be the focal point of information on committee and chapter activities, while facilitating communication.</td>
</tr>
</tbody>
</table>
### E. PUBLIC OUTREACH / EDUCATION ACTIVITIES (10 Points Maximum)

<table>
<thead>
<tr>
<th>Description</th>
<th>Activity Details</th>
</tr>
</thead>
</table>
| **Describe outreach activities with elementary, middle, or high schools (2 points):** | Ralph Salvucci Online Bridge Design Competition  
This contest is the local version of the national ASCE/ West Point Bridge Design Competition and has been very successful. K12 students utilize the West Point Bridge Design software program to design a virtual bridge to carry a specific truck load for the least cost. Students are assigned e-mentors to provide guidance.  
Future City Competition  
BSCES coordinates the New England Regional Competition of this DiscoverE program. This contest requires teams of 6th to 8th graders to design a fictitious city encompassing a STEM related theme (theme changes every year). Students use SimCity software, build a physical model, and present their design to a judging panel comprised of engineering professionals. Part of the competition also requires the students to write an essay to describe an element of their city.  
Model Bridge Competition  
BSCES invites high school and upper elementary through middle school students to explore the engineering process as they build a scale bridge out of wacky materials and compete to carry the most weight. Now its 22nd year, past Model bridge co competitions in the past involved building bridges out of pasta, chopsticks, and plasticware. |
| **Describe outreach activities for colleges without ASCE Student Chapters (2 points):** | Held the BSCES Spring Awards Dinner at Framingham State; this college has a pre-engineering program but does not have an ASCE Student Chapter. The meeting was held there in part to expose the students to the school's pre-engineering program. |
| **Describe outreach activities with your Practitioner Advisor and ASCE Student Chapters/Clubs (2 points):** | Younger Member College Liaisons  
YMG liaisons interact with the 10 ASCE Student Chapters through email correspondences regarding the status of current activities such as the Steel Bridge and Concrete Canoe Competitions and offering assistance with other challenges. YMG liaisons were assigned to nine local universities. |
| **Describe outreach activities via media outlets (2 points):** | BSCES hosts a television program, Civil Engineering Today, which is recorded monthly and broadcast locally within the Boston metropolitan area. This 30 minute program airs several times each week and guests are interviewed about their civil engineering background and projects.  
BSCES' outreach website (www.engineeryourfuture.org) includes information about the various outreach activities undertaken by BSCES. |
| **Describe other public outreach or educational activities (2 points):** | Bridge Tours  
BSCES conducts Boston Bridge Tours geared to students and adults. This four hour walking tour of bridges and other structural landmarks focused on the historical bridges around Boston’s Fort Point Channel and the newly constructed Leonard P. Zakim Bunker Hill cable stayed bridge. |
### Describe public service projects (2 points):

**Engineers Without Borders**
Within BSCES, there are several EWB Chapters (including Northeastern University and UMass-Amherst). BSCES provides support to these chapters and others through direct contribution of funds or thorough advertisement/promotion of their fundraising event. Additionally, BSCES members are active participants in the projects developed by local EWB chapters. This year’s BSCES Annual Awards Dinner featured Bernard Amadei, PhD, NAE, Founding President of Engineers Without Borders USA.

### Describe History and Heritage Activities (2 points):

**BSCES is a grateful and proud recipient of the ASCE National History and Heritage Citation this past year for efforts made to celebrate the history of the civil engineering profession.** This year BSCES continued this tradition with events such as the History of the MWRA, and The History of the Holyoke Dam and Water Infrastructure, which was showcased at Infrastructure Day, an event developed in conjunction with the City of Holyoke’s Historical Society.

### Describe Government Relations activities (2 points):

**Infrastructure: Worth the Investment Brochure**
BSCES developed and produced a document that highlighted the need to invest in our infrastructure for distribution at Engineers Day and other strategic outlets.

**Engineers and Land Surveyors Day**
The Committee assisted in the development of briefing materials for Engineers and Land Surveyors Day at the State House in coordination with ACEC-MA and MALSCE.

**Legislative Fellow**
BSCES has a Legislative Fellow program which is modeled after the ASCE Congressional Fellowship program. Legislative Fellows serve as special legislative assistants to members of the Massachusetts legislature, in particular with the Joint Committee on Transportation to provide an engineer’s insight and perspective on current and proposed legislation.

### Describe Sustainability Initiatives intended to advance the principles of sustainable development (2 points):

The Committee on Sustainability met 9 times to discuss initiatives to promote sustainable infrastructure. Members of the Committee on Sustainability authored 3 articles for BSCES newsletter to raise awareness among BSCES members of sustainability issues: Awarded the first-ever Sustainability in Civil Engineering Award to the City of Cambridge for their groundbreaking stormwater wetland project. The award is intended to recognize Massachusetts infrastructure projects that embody the principles of sustainability.

### Describe Community Service events (1 point each, 2 points max):

The Younger Members Group hosted a food drive for the Greater Boston Food Bank; over $1,100 was raised from over 40 donors.

Younger Members Group also participated in the Toys-for-Tots program, bringing in over three dozen toys.

Other community service events the YMG participates in include volunteering at the Middlesex Fells Reservation by weeding and planting flowers for seasons to come, and volunteering at a local homeless shelter for its Friday Night Supper Program.
### G. DIVERSITY AND INCLUSION (10 Points Maximum)

**NOTE:** Diversity & Inclusion is support of equitable opportunity for participation of people within the Civil Engineering profession without regard to race, ethnicity, religion, age, gender, sexual orientation, nationality, or physical challenges. In addition to points awarded for the Outstanding Section/Branch Award, information in this section will also be used by ASCE’s Committee on Diversity and Inclusion (CDI) to select the ASCE Section/Branch/Committee/Institute Diversity Award.

| Describe diversity programs (2 points): | BSCES is committed to maintaining and fostering a diverse membership, as highlighted in the commitments made in our 2015-2019 Strategic Plan. As part of BSCES's commitment to diversity, we insist that our committees, Institute chapters and technical groups are managed by volunteer groups comprised of a diverse membership and actively seeks out future leaders from the ranks of the volunteer members who comprise these groups. The Public Awareness and Outreach Committee is working on creating deep ties with professional and community organizations and student groups to foster conversations and collaborations around inclusivity in the STEM fields. Additionally, BSCES volunteers attended a round table discussion at the National Society of Black Engineers (NSBE) conference in Boston. |
| Describe leadership position for diversity (2 points): | BSCES recently established a Diversity Task Force. BSCES recognizes the need to not only have a diverse membership but to have diverse participation because diversity strengthens an organization. The creation of a diverse and inclusive environment increases creativity, dynamism and perspective. Furthermore, when we are a diverse organization we better reflect the society in which we live, in which we serve, and in which we hope to help improve. We need to reflect the society in which we live because by doing so we can inspire confidence in the communities in which we work and for which we advocate. Additionally, if we wish to encourage the next generation to pursue science, technology, engineering, mathematics (STEM) careers they need role models that they can relate to, that look like them, and that understand where they come from. |
| Describe diversity among Section/Branch leadership (2 points): | The BSCES Board of Government (which includes institute chapter and technical group chairs) is very diverse. The Board includes Ellen White (immediate past president), Michela Bogosh (Engineering Management Chair), Jennifer Jordan (Geo-Institute Chair) and Alyson Stuer (YMG Chair). Several Committees are also chaired by women; including, Sustainability, Student Chapter, and Outreach. In addition to gender diversity, the individuals have various religious and ethnic backgrounds. |
| Describe participation in community diversity programs (2 points): | Future City Competition
The BSCES-led event attracts students from around New England and has consistently had a number of all female teams. Additionally, BSCES strives to find mentors with whom the students will relate and encourage the continuation of the mentoring relationship long after the contest comes to a close.

Multiple STEM Expos
BSCES Public Awareness & Outreach Committee members have promoted the importance of STEM education to diversified groups at numerous events all over Massachusetts including the Girl Scouts of Eastern Massachusetts STEM Expo, Cambridge Science Festival and Jr. Tech “Girls STEM Summit.” |
| Describe other diversity and inclusion initiatives (2 points): | The BSCES sponsored television program, Civil Engineering Today, has routinely had minority guest speakers, including Ron Robinson of the Lewis Latimer Society speaking on the accomplished African-American inventor Lewis Latimer. |
H. ADDITIONAL SPECIAL SECTION / BRANCH ACTIVITIES (30 Points Maximum)

Describe any other activities that are not are not covered under other sections of the nomination form that your Section / Branch has undertaken to promote or advance the Civil Engineering profession to either your members or the public. These can include other Community Service projects, hosting of Regional meetings, fundraising and other best practices. Describe the activity and give dates, locations and number in attendance. Also describe any activities relative to the creation of a Section / Branch strategic plan and/or efforts to support the Society’s Strategic Initiatives (ie: sustainability efforts). A maximum of five (5) points will be given for each special activity.

<table>
<thead>
<tr>
<th>Type of Activity/Event/Initiative</th>
<th>Date (if applicable)</th>
<th>Describe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Awards Dinner</td>
<td>September 30, 2015</td>
<td>167th Annual Awards Dinner featuring keynote speaker Bernard Amadei, Founding President of Engineers Without Borders – USA, speaking on Engineering for Sustainable Human Development. This event was sold out with over 150 attendees. BSCES presented its first Sustainability Award at the dinner.</td>
</tr>
<tr>
<td>ASCE Presidents and Governors Forum</td>
<td>September 2015</td>
<td>BSCES president Ellen White attended in Reston, Virginia</td>
</tr>
<tr>
<td>ASCE Annual Conference</td>
<td>October 2015</td>
<td>BSCES representatives attended ASCE’s Annual Conference in New York City.</td>
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<tr>
<td>ASCE Leadership Conference</td>
<td>February 2016</td>
<td>BSCES representatives attended the ASCE Leadership Conference in Pittsburgh.</td>
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<tr>
<td>ASCE Region 1 Assembly</td>
<td>Fall 2015 and Spring 2016</td>
<td>BSCES representatives attended the spring and fall Region 1 assemblies</td>
</tr>
<tr>
<td>ASCE Fly-In Program</td>
<td>March 2016</td>
<td>BSCES had several representatives at ASCE’s Fly-In program in Washington DC.</td>
</tr>
<tr>
<td>ASCE President-Elect Visit</td>
<td>May 14, 2016</td>
<td>BSCES hosted ASCE president-elect Norma Jean Mattei; highlights included: Leadership Luncheon at the Engineering Center, Keynote presentation at Award Dinner, and attendance at Infrastructure Day.</td>
</tr>
<tr>
<td>Engineers and Land Surveyor’s Day</td>
<td>May 10, 2016</td>
<td>BSCES coordinated with ACEC and others relative to numerous legislative efforts and attended the annual Engineers and Land Surveyors Day at the Statehouse.</td>
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MaineDOT Route 1 Reconstruction, Ogunquit, ME
by Ernest Martin, MaineDOT Project Manager; Jeff Finitz, PE, Louis Berger Portland Office Manager, Tim Higginson, Louis Berger Project Manager; Lynn Farrington, PE, Traffic Task Leader

Ogunquit, ME, home to the Ogunquit Playhouse—“America’s foremost summer theatre,” 3.5 miles of white sandy beaches, the 1.25 mile Marginal Way, picturesque Perkins Cove, and numerous artists and musicians, is considered one of Maine’s most beautiful and populated summer destinations. Route 1, through Ogunquit, is also considered one of Maine’s most traveled two lane Main Streets, which has taken a significant toll on Route 1 over the years. That’s why MaineDOT has embarked on a major project to reconstruct Route 1 and build two new bridges, over the Ogunquit and Josias Rivers. At the same time, the sidewalks and streetscape at the heart of the village are receiving a major facelift. The end result is a truly “Complete Street” with bicycle accommodations and beautiful spacious brick sidewalks on both sides of Main Street in the heart of town.

Louis Berger’s Portland, ME office was selected by Maine DOT to provide the design and construction phase services of 2.3 miles of roadway safety, sidewalk, and drainage improvement along the corridor. This $13.5 million project involves the construction of two new bridges, over 6.5 miles of drainage work, 2.3 miles of roadway reconstruction, over 3 miles of brick and paved sidewalks, landscaping, and decorative light fixtures in the downtown area. The Town of Ogunquit was very involved and supportive of the endeavor and provided the funding for the

President’s Report
by Brian A. Morgan, Esq., Legal Counsel, CDM Smith Inc.

As president of the Boston Society of Civil Engineers Section/ASCE, I would like to welcome you to a new year as we kickoff a full calendar of activities aimed at providing technical programs, networking events, and diverse member services. I am honored to serve as this Section’s president and I hope that you take advantage of the professional development opportunities offered throughout the upcoming year.

Being the oldest engineering society in the United States, we have built a great organization and are very fortunate to have substantial resources. Our achievements have been recognized nationally. We received the Outstanding Section and Branch Award for Very Large Sections and Branches from ASCE four of the past five years and were recently named the recipient of the 2015 ASCE Section and Branches Diversity Award.

Very few sections within ASCE offer the breadth of services that our Section provides. With over 3,400 members across the Commonwealth, BSCES has a total of eight technical groups and institute chapters, ten committees, ten student chapters and a Western Massachusetts Branch that BSCES members are welcome to join.

BSCES is the only section that publishes an engineering journal and has its own television show. Throughout the year, we support a legislative fellow who serves as a staff member to the Massachusetts Legislature’s Joint Committee on Transportation. Each year, BSCES sponsors awards, donations, prizes, scholarships, and grants which exceed $40,000. Beyond our technical program, BSCES members are volunteer participants with Engineers Without Borders, the Middlesex Fells Cleanup, and the Greater Boston Food Bank, among others. We also host a variety outreach activities geared to

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MaineDOT Route 1 Reconstruction
continued from page 1

streetscape and nearby park efforts as well as the upgrading of sidewalks to brick material. Public outreach and stakeholder input was extremely important to the Department, Louis Berger and the project to ensure that the final project, as well as construction, was a success.

Design started in August 2011 and was completed in the fall of 2014. Construction started in the winter of 2015 and is expected to be completed on or around November 2016—two months ahead of schedule. In an attempt to mitigate impacts to the traveling public, which increases significantly from Memorial Day through Labor Day, Maine DOT has shut down the construction operation Memorial Day weekend and from June 21st thru Labor Day Weekend. This alternative was discussed regularly with the public and, while unusual, was truly necessary for local tourism and businesses.

The 2.3 mile section of roadway is the primary route in the town. It provides access to numerous commercial establishments in a scenic corridor classified as an “urban minor arterial.” It also serves as a pass through route for area-wide travel and freight transportation. The traffic volume increases from fewer than 10,000 vehicles per day (vpd) in the off-season to more than 22,000 vpd during tourism season.

The existing roadway had an original, concrete base overlain and widened with bituminous surfaces, resulting in limited curb reveal to separate the sidewalks from the roadway and control stormwater runoff. The pavement was in need of improvement, due to both reflective cracking and delamination. Additionally, the sidewalks were inadequate for the volume of pedestrians in this resort community. They were in poor condition, narrow, discontinuous, and non-compliant with ADA criteria. Other streetscape improvements include improved lighting, landscaping, and street furnishings. Louis Berger also identified improved bicycle provisions (e.g., a widened shoulder in the design where allowable). The firm proposed signing and marking improvements to advance roadway safety.

Stormwater design for the corridor involved the full replacement of the limited existing closed drainage network with expansion to collect

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MaineDOT Route 1 Reconstruction

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extended sidewalks and curbing. Drainage design was a challenge considering the growth and development over the years along the frontage of the corridor. The existing concrete road core complicated the location of proposed drainage trunk line; utilities had filled available area along the edge of the concrete slab. The result was a myriad of intermixed abandoned and active utility lines which the closed drainage improvements were designed in, over and around. Closed drainage system outlets, which in some cases existed through abutters basements, were completely revamped to be located within existing or obtained rights of way for future maintenance. Drainage outlet locations were considered, evaluated to minimize impact and designed to incorporate native plantings, stabilize stormwater flows and minimize erosion in this sensitive oceanfront location.

In the past 30 years, the Town of Ogunquit experienced substantial growth prompting significant, impermeable, upland development with minimal control over stormwater discharges. The limited existing drainage systems are a combination of closed systems in disrepair and shallow open drainage. Existing closed systems typically run off-site beneath private property without official easements. The modern drainage system captures and convey upland drainage and roadway stormwater via planned and designed outlets while minimizing right-of-way costs as directed by the Department.

Construction Cost: $13.5M
Contractor: Grondin & Sons, Gorham, ME
Construction Award Date: Feb/March 2014
Target Completion Date: December 2016
Percent Complete: 75%

President’s Report

continued from page 1

the K–12 community including tours of Boston bridges, the Future City Competition, Model Bridge Contest, and Online Bridge Contest.

There are many more programs that BSCES offers and I would encourage you to explore the organization and participate in upcoming events and/or join a technical group or institute chapter. This year we are on target to host close to 40 technical group or institute chapter events that will help you take advantage of your membership and help build the engineering community.

I would like to take this opportunity to recognize the efforts of staff at The Engineering Center Education Trust (“TECET”) who work hard to support the Section’s programs and services. We are fortunate to have such support, which helps our Society stand out within ASCE. Earlier this summer, Anthony Puntin – BSCES’ executive director – decided to pursue new opportunities. We are very grateful for his dedication to the organization that he provided during his five-year tenure. He was instrumental to our success.

My focus this year will be on steering BSCES to ensure that we can sustain our great member benefits for years to come. Under a “business as usual” approach, we typically would offset any projected operating deficit in the budget with money from our managed funds. Recent years have been challenging as revenue has not always covered the Society’s expenses at year-end. However, this year to combat this problem we are making a few significant changes. First, we elected to restructure the services offered by TECET by not filling the role of executive director and by streamlining certain services TECET offers BSCES. Richard Keenan will be the Society’s association manager. With these changes, our Section will realize a significant cost savings, which allows us to reduce our projected deficit. Creating a Society business model that is based on a near balanced budget will ensure that our Society will offer great programs for years to come.

Second, the Finance Committee revised the BSCES Sponsorship program. By streamlining the program, we are able to offer more advantages to two new categories of sponsors —Society and Program Sponsors. Through increased solicitation and the revised program, we have increased the revenue obtained through sponsorships. Thus, we have been able to further reduce the annual deficit.

Third, I will continue to work with all facets of the organization to challenge the status quo and create new programs and resources while focused on a sustainable business model. Thus, building on our member’s accomplishments and leadership, particularly BSCES Past-President Ellen White, our Executive Committee members, and our technical group and institute chapter chairs who comprise the BSCES board of Government and are listed on page 2 of this newsletter.

I would like to invite you to attend the 168th BSCES Annual Awards Dinner on November 14th at the UMass Club in Boston. The keynote speaker is former Massachusetts Governor Michael Dukakis. The evening will include recognition of BSCES award recipients. Please see our website events page for more information about this and other events.

I would like to thank our 2016–2017 Society and Program Sponsors that are instrumental in financially supporting our organization. You will find a listing of these organizations in this issue’s Recent News and Updates column on page 7. I would especially like to recognize and thank Society Sponsor Louis Berger, which is the sponsor of this newsletter, and encourage you the read their page 1 article entitled MaineDOT Route 1 Reconstruction, Ogunquit, ME. The Transportation & Development Institute Boston Chapter is the feature group of this issue and I would also encourage you to learn more about the group by reading the page 5 article by T&D Boston Chapter Chair Bryan Zimolka, PE, Howard Stein Hudson.

I am looking forward to seeing you at future events!
BSCES Legislative Fellow Update from Beacon Hill—An Act Financing Municipal Roads and Bridges

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

The legislative session of the 189th General Court of Massachusetts came to an official end on July 31st and with it, a flurry of activity over a handful of bills with direct impact to the civil engineering community. One of these bills, H.4424, was signed into law by Governor Baker in August. The new law is Chapter 220 of the Acts of 2016 - An Act Providing for the Financing of Certain Improvements to Municipal Roads and Bridges. In addition to funding $750,000,000 for MassDOT Highway Division projects, the law included $50,000,000 for a newly created Small Bridge Program and made changes to the existing Complete Streets Program.

The Small Bridge Program will provide municipalities an additional funding mechanism to assist with design, construction, preservation, or reconstruction of municipal owned bridges that don’t qualify for federal aid. In general, these bridges are classified as municipally-owned structures with spans less than 20 feet. These include both bridges and culverts and the program will help municipalities cover expenditures for engineering, permitting, and other services essential to the projects.

MassDOT is expected to develop a selection plan that takes into account need-based criteria and geographic distribution. This plan is expected to be filed with the Joint Committee on Transportation and the Clerks of the House and Senate by September 1st. Governor Baker used his line-item veto powers to strike the provision from the law stipulating that not more than 20 percent of the funds expended shall be distributed to projects in any one MassDOT Highway District. This veto is expected to help many of the communities in the western part of the state where a significant number of municipally-owned structures that are less than 20 feet long are located. Applications for the first round of funding are expected to be available to municipalities on September 1st. Applications will be due by October 31st with an anticipated award date in January.

The law also included changes to the existing Complete Streets program. To be eligible for funding, a municipality must apply through MassDOT, adopt a Complete Streets by-law ordinance, have municipal employees attend a MassDOT training, and develop a complete streets prioritization plan.

BSCES Seeks 2017–2018 Legislative Fellow

by David Westerling, PhD, PE, PLS, Emeritus Professor, Department of Civil and Mechanical Engineering, Merrimack College and BSCES Legislative Fellow Committee Chair

The Legislative Fellow is a BSCES member who serves as a technical resource at the Massachusetts State House. The Legislative Fellow generally works with the staff of the Joint Committee on Transportation on current issues that can benefit from the input of an engineering professional. Most efforts focus on transportation or environmental initiatives but can vary. A Legislative Fellow has the ability to solve real world problems at the State House that impact the Commonwealth. This highly visible position also provides the participant an opportunity to serve the public while giving back to BSCES and the civil engineering profession. Other benefits include office space at the State House, access to State House News Service, access to state house tours, attendance at legislative conferences, access to the legislative chamber, and the ability to meet and work with our legislators. Legislative Fellows develop a further appreciation of how rules and regulations are developed. The Legislative Fellow receives a stipend from BSCES dependent on time of service.

The application deadline is October 31, 2016 for the Fellowship year beginning in early February 2017 and ending on July 31, 2018, the probable end of the legislature’s formal session in 2018. For more information, visit the BSCES Legislative Fellow page on the BSCES website and see the application process. You may also contact Rich Keenan with further questions at 617/305-4110 or rkeenan@engineers.org.
Achieving Success with T&DI Boston Chapter Expansion
by Bryan Zimolka, PE, Howard Stein Hudson and Chair, Transportation and Development Institute Boston Chapter

As we move into the 2016–2017 year, the Boston Chapter of the Transportation and Land Development Institute (T&DI Boston Chapter) is building on last year’s success and planning more social, technical, and networking events. As the summer season ends, the chapter’s executive committee is putting the finishing touches on the year-long effort to plan this year’s approach to events, meetings, communications, and operations. The goal for this year is to improve the social atmosphere of the chapter and enhance media presence while maintaining the technical and signature events that the chapter has built.

On June 15th, a group of BSCES members met after hours for the final meeting of the 2015–2016 year at the American Fresh Brewhouse at Assembly Row in Somerville. This meeting was another step towards improving the social atmosphere of the group that we strived to establish throughout the 2015 – 2016 year. We discussed the successes of all the events and meetings, as well as ways to enhance the T&DI Boston Chapter’s presence in the engineering community.

Back on May 20th, we hosted the annual Bertram Berger Seminar at the Courtyard Marriott Downtown Boston. 130 people gathered to hear from a total of 11 speakers who were all asked to offer their comments on the seminar’s theme of A New Focus for Growth Around the Commonwealth. Similar to years past, the event was broken out into two separate panel discussions followed by a lunchtime program, which was capped with a presentation from our distinguished keynote speaker, MassDOT Highway Administrator Thomas Tinlin.

Panel one speakers focused on the targeting of areas for land development and the planning process that is involved in determining the appropriate land use regionally and locally. Sara Myerson, the executive director of planning for the Boston Redevelopment Authority, provided an overview for the development around Boston and provided great examples for the strategic planning areas associated with the Imagine Boston 2030 master plan.

Panel two speakers focused on specific project locations that involve large scale land developments and associated infrastructure improvements. Mike O’Dowd, project manager for the MassDOT Highway Division, and Joe Beggan, senior manager of transportation from the Harvard Planning Department, discussed the Allston-Brighton Interstate 90 Interchange Improvement Project and the impacts the roadway realignment will have on the adjacent Harvard parcels. It was a great example of how a public agency can collaborate with a private entity to improve the city from an infrastructure and land development standpoint.

The Berger Seminar is known to be the signature event of the Transportation and Development Institute Boston Chapter, however it is only one of numerous events hosted by the group. Last year members also organized a lunchtime legislative update on state of affairs with transportation funding. Building on the success of the webinars hosted by the T&DI Boston Chapter from the 2014–2015 year, which were the first of its kind for BSCES, a webinar on the Critical Elements of Roundabout Design was hosted on November 18th featuring Andy Paul from Kittelson & Associates, Inc.

On September 13th, we held our first meeting of the new fiscal year for all interested committee members to discuss a full agenda of T&DI Boston Chapter action items for the upcoming year. During this meeting the executive committee provided more information about this year’s planned T&DI Boston Chapter events, set meeting schedules, and discussed members’ personal goals and how they would like to enhance their presence within the engineering community. The current list of event opportunities is:

- Kayaking on the Charles River Summer Activity (September 17, 2016)
- Technical Webinar #1 (October 2016)
- Fall Social (October 2016)
- Bicycle Facility Design Training Course (October 2016)
- Winter Activity (February 2016)
- Technical Webinar #2 (March 2016)
- Legislative Luncheon Update (April 2016)
- Francis M. Keville Annual Dinner (April 2016)
- Bertram Berger Seminar (May 2016)
- BSCES Public Awareness & Outreach Awards Celebration/Herzog Dinner (May 2016)

The Kayaking on the Charles River trip was a great success as we had excellent weather and a larger than expected turnout. It was the first activity of this year that we were able to join together as committee members and host a fun event for friends and family. We are striving to plan another friends and family oriented activity as the year progresses. Please stay tuned as we will provide more event details throughout the year.

As we engage more members and place a high value on everyone’s time, we continue to recognize the need for flexibility. Therefore our approach is:

1. Out of necessity, our event planning meeting times and dates are based on active participants’ availability and will be set by each event chair after groups are formed and in the near future.
2. The T&DI Boston Chapter executive committee holds conference calls at monthly intervals to address chapter business and set meeting agendas.
3. We plan to host bi-monthly evening meetings open to all active T&DI Boston Chapter members. These meetings will be social in atmosphere.

In order to become successful in achieving our goals, we are looking to engage innovators, leaders, and motivated individuals in the transportation and development profession. It is through new ideas and an extensive knowledge base in engineering practices, social interactions, and event management that the T&DI Boston Chapter will contribute to enhancing the engineering community at large. This is your opportunity to stand out and show what you can do outside the day-to-day practices within your private company or public agency to advocate for and improve the development throughout the commonwealth. If you are a transportation or land development professional and an ASCE T&DI member looking for a group where you can discuss current happenings, exchange ideas, and strive to make a difference—you are invited to join the Boston Chapter of T&DI.

To learn more, contact me at tdi.bsces@gmail.com or visit our LinkedIn and Facebook pages. Be sure to review current news on events and meetings for the T&DI Boston Chapter sent to all members by our Secretary and Marketing Director, Jay Carroll.
Volunteer Opportunities

Outreach Volunteers Needed!

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

Future City Mentors

Future City teams are signing up to compete in this year’s Future City Competition (Saturday, January 21, 2017). We are looking for engineers to mentor the teams! Mentoring consists of advising the students on how to design a successful city. This year’s theme is Public Spaces. Ideally, you will be able to work with the middle school students and provide engineering advice throughout the project. This may happen in person, via email, or even Skype. Typically, most engineers devote approximately 12-14 hours from September to January. Additionally, if you cannot mentor this year, we will need judges for the January 21st competition day as well. Please contact me at oliviaannerichards@gmail.com if you are interested. Volunteers are needed to support our teams from the following cities throughout Massachusetts and New England:

- Boxford, MA
- Chelsea, MA
- East Longmeadow, MA
- Hingham, MA
- Lawrence, MA
- New Bedford, MA
- Provincetown, MA
- Salem, MA
- Somerville, MA
- Westfield, MA
- Canaan, VT
- Fremont, NH

Model Bridge Mentors

Model Bridge teams will be registering for the BSCES Model Bridge Competition in September. We need engineers to mentor these teams! Mentoring consists of advising the students while they design a small scale bridge (40 inches in length) with the specified materials. The competition begins at the end of October. Ideally, the mentor will be able to work with the kids and provide advice throughout the project. This may happen in person, via email, or even Skype. Typically, most engineers visit the school weekly or every other week from November to January. Please contact me (oliviaannerichards@gmail.com)

if you are interested! The competition will be held on February 4, 2017.

Girl Scouts’ Geek is Glam STEM Expo

Saturday, October 15, 2016, 9 AM – 5 PM. Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA

This exposition brings together various industries involved in science, technology, engineering and mathematics to showcase to the Girl Scouts of Western Massachusetts. BSCES will be involved in two different activities at the event. We will have a display and information booth at the open exposition and a workshop on bridge building for Girl Scouts. We need volunteers to assist with the bridge building workshop. Girl Scouts will be working in teams to build different types of bridges. Volunteers will assist with the activity and help to answer questions. In the afternoon, we need volunteers to help represent BSCES at the booth during the open expo. Volunteers will be talking to girls and parents about BSCES and the civil engineering industry.

For more information on this and other volunteer opportunities or becoming part of the BSCES Public Awareness & Outreach Committee, please contact Olivia Richards (oliviaannerichards@gmail.com).
Recent News and Updates

BSCES Welcomes New Board of Government
BSCES is pleased to announce the results of the 2016-2017 BSCES Board of Government Elections. Members of the 2016-2017 Board of Government have taken their oath of office and officially assumed oversight of BSCES with the commencement of the 2017 BSCES fiscal year on July 1, 2016. BSCES members will welcome their new leaders during the 168th BSCES Annual Awards Dinner, which takes place the evening of Monday, November 14, 2016 at the University of Massachusetts Club, located on the 32nd floor of One Beacon Street, Boston, MA. The members of the new BSCES Board are as follows:

President
Brian A. Morgan, Esq., CDM Smith

President-Elect
Malek A. Al-Khatib, PE, Louis Berger

Secretary
Charles W. Roberts, PE, Childs Engineering

Treasurer
Robert L. Leger, PE, Massachusetts Port Authority

Assistant Treasurer
Gregory L. Mirliss, PE, AECOM

Senior Vice President
Geoffrey B. Schwartz, PE, GZA GeoEnvironmental, Inc.

Senior Vice President
Richard D. Maher, PE, William Perry Associates

Vice President
Christopher “Topher” Smith, PE, Melrose, MA

Vice President
Bruce L. Jacobs, PhD, PE, EnviroInsite, LLC

Past President
Ellen P. White, PE, Patrick Engineering

Western MA Branch Vice President
Vacant

Institute Chapter & Technical Group Chairs
COPRI Boston Chapter
Ryan M. McCoy, PE, Pare Corporation

Construction Institute Boston Chapter
Christopher P. Hersey, Skanska

Engineering Management Group
Michaela L. Bogosh, PE, CDM Smith

EWRI Boston Chapter
Ronald K. Burns, PE, Arcadia Technology, Inc.

Geo-Institute Boston Chapter
Jennifer A. Jordan, PE, JCK Underground, Inc.

Structural Engineering Institute Boston Chapter
Dennis J. Baker, PE, HNTB Corporation

T&D/ Boston Chapter
Bryan Zimolka, PE, Howard/Stein-Hudson Associates
Younger Member Group
Alyson Stuer, PE, C&C Consulting Engineers

BSCES Thanks 2016–2017 Society Sponsors
The BSCES Board of Government would like to thank the following firms for their support as 2016–2017 BSCES Society Sponsors:

• AECOM
• Robinson+Cole
• CDM Smith
• TranSystems Corporation
• Louis Berger
• VHB

BSCES Thanks 2016–2017 Program Sponsors
The BSCES Board of Government would also like to thank the following firms for their support as 2016–2017 Program Sponsors:

• BETA Group, Inc.
• Childs Engineering Corporation
• Dewberry
• Green International Affiliates, Inc.
• GZA GeoEnvironmental, Inc.
• Haley & Aldrich, Inc.
• Hayward Baker, Inc.
• Helical Drilling
• Howard Stein Hudson
• Hoyle, Tanner & Associates
• McMillen Jacobs Associates
• N.E. Bridge Contractors, Inc.
• Northeastern University
• Pare Corporation
• Skanska Civil
• Stantec
• TranSystems
• Tufts University
• Weston & Sampson Engineers, Inc.

BSCES Welcomes New Members
BSCES Board of Government is pleased to welcome the following new members who joined BSCES since the start of fiscal year 2017 which began on July 1, 2016:

Affiliate Members
Robert A. Johnson, Paxton, MA
Otoniel C. Ramos, Quincy, MA
Thomas Suski, Unitess Corporation

Associate Members
Emily C. Anderson, EIT,
Green International Affiliates, Inc.

Cory Cormier, EIT, Simpson Gumpertz & Heger, Inc.
Michael Dube, EIT, Methuen, MA
Connor Lauzon, CDM Smith
Carlo Pavone, EIT, Malden, MA
Kathryn Roosa, EIT, Jamaica Plain, MA
Terence P. Wong, EIT, Howard Stein Hudson

Members
Ushakar Jha, PE, Rye Development
Christina M. Papadopoulos, PE, Town of Chelmsford
Charles M. Parsons, RLS
Kelly, Granger, Parsons & Associates, Inc.
Jonathan Smith, PE, Kennedy/Jenks Consultants

Student Members
Dean Avrhami, University of Massachusetts Amherst
Alexander Bornholdt, Merrimack College
Carli Gavin, University of New Hampshire
Lauren O. Gonyon,
University of Massachusetts Amherst
Arvand M. H. Navabi, Northeastern University
George K. Rakib, University of Massachusetts Lowell

Autio Receives William H. Wisely American Civil Engineer Award
The BSCES Board of Government is pleased to congratulate former BSCES President Anni Autio, PE, Thompson & Lichtner Co., Inc., for recently being named the recipient of the William H. Wisely American Civil Engineer Award. This award recognizes members of ASCE who have shown a consistent commitment to promoting the history, heritage, and development of technical and professional activities of the Society. Anni was chosen by the ASCE Executive Committee to receive this award “for her guidance and leadership as a civil engineer in all phases of environmental projects, her dedication to preserve the history and heritage of ASCE and the profession, and her unselﬁsh service to ASCE.”

Hajjar Receives Moisseiff Award
The BSCES Board of Government would like to congratulate Professor Jerome F. Hajjar, PhD, PE, Northeastern University, for being named co-recipient of the American Society of Civil Engineers’ 2016 Moisseiff Award for his paper on “Quasi-Static Cyclic Behavior of Controlled Rocking Steel Frames.” This paper, which was published in the November 2014 issue of the ASCE’s Journal of Structural...
Recent News and Updates  (continued from page 7)

Engineering, can be downloaded from the ASCE Library. Established by ASCE in April 1947, the Moisseiff Award is a memorial in recognition of the accomplishments of Leon S. Moisseiff, a notable contributor to the science and art of structural design. This prize is given to an important paper published in a print issue of an ASCE journal, dealing with the broad field of structural design.

Send Us Your News
Looking to strengthen the community that is BSCES, the BSCES Executive Committee and Newsletter Editorial Board has decided to expand the content of this BSCESNews Recent News and Updates column by including more member news. Have you recently been recognized for a professional accomplishment, passed the Professional Engineer Exam, received a promotion, or changed employers? If so, send your news items to BSCES Newsletter Editorial Board Chair Michael R. Cunningham, PE, Kleinfelder, at mcunningham@kleinfelder.com.

BSCES Recognized for Commitment to Diversity
BSCES was recently honored with the 2015 ASCE Section and Branches Diversity Award in recognition of its commitment to fostering diversity and inclusion within the civil engineering community. In selecting BSCES to receive this award, the ASCE Committee on Diversity and Inclusion (CDI) cited the formation of our Diversity and Inclusion Task Force, our diverse board membership and our contributions to the promoting STEM in underrepresented student populations, as stellar examples of the essential value of diversity and inclusion.

BSCES 2017 Model Bridge Competition
Join the Public Awareness & Outreach Committee for the Kickoff Meeting of the 2017 Model Bridge Competition! Each year a group of civil engineers come together to choose a material to be specified for bridge construction and write technical specifications for the bridge design. The goal of this competition is to design, construct and submit a structure with the specified materials and design for judging in the categories of most efficient and most aesthetic bridge design. We welcome all students in grades 12 and below to participate in the competition and practice their bridge building skills. The Kickoff Meeting will take place at BSA Space, 200 Congress Street, Suite 200, Boston, MA 02210 on Saturday, October 22, 2016. For more information, the latest updates, and initial registration, visit the BSCES website.

Free Online Career Fair
There are many benefits to ASCE and BSCES membership. One upcoming perk is an online career fair on Thursday, October 20, 2016. Participation in this virtual fair is free for members. All job seeker participants in the event will be part of a diverse pool of talented professionals. Additionally, your company can register to “interview” potential candidates. ASCE’s Online Career Fair will connect your company with top talent from a vast community of professionals, representing all sectors around the country. The online format provides an easy, effective way to discover top talent. Employers will receive a fully customized booth, complete with logo, images, open positions, videos and other information important to candidates. During the live event, employers will receive three recruiter seats, where recruiters will connect directly with job seekers in one-on-one chats to discuss career opportunities and determine if the candidate could be a good match for any openings.

Launch a Civil Engineering Club at a Local High School This Fall
ASCE’s Civil Engineering Clubs connect high school students with engineer mentors, who together explore civil engineering through activities, lessons, and field trips. It’s easy to get a club started with ASCE’s online and offline resources which range from downloadable activities to school supplies and marketing materials. For more information, visit the Civil Engineering Club webpage or contact ASCE’s pre-college outreach staff via email at outreach@asce.org.

New Mini-Poster Outlines Path for Just-Starting Engineers in Pursuing Licensure
ASCE’s Committee on Licensure has released a new “Engineers Guide to Pre-Licensure Experience,” a mini-poster intended to help transitioning college graduates with experience guidelines in their first years of practice. This infographic highlights the various professional practice topics engineering interns should develop, based on ASCE’s Civil Engineering Body of Knowledge. View and download the guide here.

Key Contacts Needed to Help ASCE Tell the Civil Engineering Story
If you have an interest in becoming an advocate for the importance of the civil engineering profession, consider becoming an ASCE Key Contact. If ever there was a time for Society members to become Key Contacts and engage in public policy conversations going on across the country, it’s now. The next six to nine months offer a number of major opportunities for ASCE members to influence legislative decisions on infrastructure investment, as candidates at all levels of government ask for votes this fall. Read some encouragement from seven Key Contacts, who talk about why they find it rewarding here. For more information, or to register as an ASCE Key Contact, click here.

Update Your ASCE Profile
Have you moved lately, changed jobs, or do you have a new email address? It is very important that we receive your updated contact information. Please make sure you update your profile at ASCE National. Every month BSCES receives updated member information from ASCE that we utilize for all BSCES correspondence. You have a personal profile that you can access and update your contact information. Simply go to the ASCE “Membership & Communities” page and click on the “Log in...” bullet under the Already a Member section. Once you’ve logged in, you can edit your contact information. Members can also always call 800/548-2723 and have someone in Customer Service make updates for them over the phone.

Northeastern University
College of Engineering

Department of Civil and Environmental Engineering

Urban Engineering at Northeastern University
With core expertise in computational and experimental simulation, sensing, and monitoring

Graduate programs full-time and part-time in:

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- GEOTECHNICAL ENGINEERING
- STRUCTURAL ENGINEERING
- TRANSPORTATION ENGINEERING

Interdisciplinary education and research thrusts include:

- CIVIL INFRASTRUCTURE SECURITY
- Resilient Infrastructure Systems, Structural and Building Engineering
- ENVIRONMENTAL HEALTH
- Clean Water and Environmental Systems, Geoenvironmental Engineering
- SUSTAINABLE RESOURCE ENGINEERING
- Sustainable Network Systems; Energy and Green Engineering

For more information, contact: Northeastern University, Department of Civil and Environmental Engineering 617-373-2444, civilinfo@coe.neu.edu; www.civ.neu.edu
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.

T&DI Boston Chapter Webinar
Wednesday, October 19, 2016
12:30 PM – 1:30 PM
Transportation Infrastructure Needed for Self Driving Cars
Dan Krechmer, Principal, and Marty Milkovis, Senior Associate, Cambridge Systematics
This webinar will provide an overview of the latest technology, policy, and key planning and design considerations for the transportation infrastructure needed for self-driving cars, including case studies of the impacts of connected and automated vehicle technology (CAV) on transportation planning, ITS and operations.
Please see the Insert at the end of this month’s newsletter for further details.

Engineering Management Group Seminar
Thursday, October 20, 2016
Northeastern University, Snell Library (Rm 90) 360 Huntington Avenue, Boston, MA 02115
5:30 PM Social/Registration and Refreshments 6:30 PM Presentation
The Flint Water Crisis: Keeping the Citizens of Flint Safe
Emily Garner, PhD Student, Virginia Tech
The Flint Water Crisis is one of the most significant public health issues that our country has faced in recent history. The uncovering of elevated levels of lead in the City of Flint Michigan’s drinking water shook the city and the nation’s confidence in their public water supply and led to regulatory action. Throughout the crisis, the citizens of Flint turned to Virginia Tech researchers to be their voice. Please join us to hear Ms. Garner speak on how the Flint Water Study team at Virginia Tech uncovered the water quality issues in Flint.
Please see the Insert at the end of this month’s newsletter for further details.

Younger Member Group Information Session
Wednesday, October 26, 2016
Nitsch Engineering, 2 Center Plaza, Suite 430 Boston, MA 02108
5:30 PM Registration; 6:00 PM Presentation
NCEES Information Session with Paul Tyrell
Paul Tyrell, PE, Chief Civil Engineer, Senior Associate, STV Inc.; Vice Chair, Massachusetts State Licensing Board
Have you been wondering about the engineering and surveying exams? Do you have questions about engineering licensure? Join the BSCEs Younger Member Group for an informative dinner session with Paul Tyrell, PE, NCEES Speaker and Vice Chair of the Massachusetts State Licensing Board.
Please see the Insert at the end of this month’s newsletter for further details.

ASCE and BSCEs Sponsored Seminar
Thursday – Friday, November 3 – 4, 2016
Hyatt Place Boston Braintree 50 Forbes Road, Braintree, MA 02184
8:30 AM – 4:30 PM
Fracture Critical Inspection Techniques for Steel Bridges
8:00 AM – 4:30 PM
Hilton Garden Inn Worcester 35 Major Taylor Boulevard, Worcester, MA
The course curriculum for this training reflects current practices, while addressing new and emerging technologies available to bridge inspectors. In addition, the course features exemplary training; hands-on workshops for popular types of nondestructive evaluation (NDE) equipment; and a case study of an inspection plan for a fracture critical bridge.
Please see the Insert at the end of this month’s newsletter for further details.

168th BSCEs Annual Awards Dinner
Monday, November 14, 2016
The University of Massachusetts Club One Beacon Street, Floor 32 Boston, MA 02108
5:30 PM Registration and Reception 6:30 PM Opening Remarks 7:00 PM Dinner
7:45 PM Keynote Address/Remaining Program
Keynote Speaker: Former Massachusetts Governor Michael S. Dukakis, Distinguished Professor of Political Science, Northeastern University
Please join us for the 168th Annual Awards Dinner at the University of Massachusetts Club for an evening celebrating BSCEs and the engineering profession. BSCEs will recognize new leaders, present annual awards, and honor our newest Honorary Members, Former Governor Michael S. Dukakis and Founding Principal of Nitsch Engineering, Judith Nitsch, PE.
Please see the Insert at the end of this month’s newsletter for further details.

Program Committee Sponsored NHI Training
Tuesday – Friday, Nov. 29 – Dec. 2, 2016
Hilton Garden Inn Worcester 35 Major Taylor Boulevard, Worcester, MA
8:00 AM – 4:30 PM
Fracture Critical Inspection Techniques for Steel Bridges
The course curriculum for this training reflects current practices, while addressing new and emerging technologies available to bridge inspectors. In addition, the course features exemplary training; hands-on workshops for popular types of nondestructive evaluation (NDE) equipment; and a case study of an inspection plan for a fracture critical bridge.
Please see the Insert at the end of this month’s newsletter for further details.

continued on page 10
Program Committee Sponsored 
NHI Training

**TUESDAY – THURSDAY, FEBRUARY 14–16, 2017**
Hilton Garden Inn Worcester
35 Major Taylor Boulevard, Worcester, MA
8:00 AM – 4:30 PM

**Bridge Inspection Refresher Training**
The major goals of this course are to refresh the skills of practicing bridge inspectors in fundamental visual inspection techniques; review the background knowledge necessary to understand how bridges function; communicate issues of national significance relative to the nations’ bridge infrastructures; re-establish proper condition and appraisal rating practices; and review the professional obligations of bridge inspectors. This course is based on the “Bridge Inspector’s Reference Manual,” 2002 (updated 2006), with reference to the AASHTO Manual as defined by the National Bridge Inspection Standards regulation.

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

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**Upcoming Events (continued from page 9)**

**Mark Your Calendar!**

**Wednesday, November 9, 2016**

**Boston’s Secret Bridge and More—Massport’s Thomas J. Butler Freight Corridor Project**

**Featuring**

**Sam Sleiman, PE, CCM**
Director, Capital Programs & Environmental Affairs, Massachusetts Port Authority

*Please see the Insert at the end of this month’s newsletter for more information on this SEI Boston Chapter-sponsored event.*

**ASCE Webinars**

**SUPPORT OUR SECTION**

*Use WEBBOSSEC to have 20% of your purchase donated to our Section.*

Are you planning to take an ASCE webinar? Sign up with the code WEBBOSSEC and 20% of your registration fee will be donated to the Boston Society of Civil Engineers Section/ASCE.

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

**Classifieds**

**Gill Engineering Associates, Inc.**

**Civil/Structural Engineers**—Immediate opportunities at all levels for motivated professionals interested in helping to grow a progressive transportation engineering and design firm. Position requires BSCE, 3+ years of experience, as well as Microsoft Office and AutoCAD proficiency. Please forward your confidential resume to: Gill Engineering Associates, 63 Kendrick Street, Needham, MA 02494; or email Dayna Gill at dgill@gill-eng.com.

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**Become a BSCESNews Contributor**

Would you like to contribute to the newsletter of the oldest civil engineering society in the country? The BSCES Newsletter Editorial Board is seeking members who are willing to write articles for publication in BSCESNews or to join the Editorial Board.

Typically 300 to 700 words, BSCESNews featured articles are about technical topics or professional matters of interest to civil engineers. The November 2016 issue of the newsletter for example, will highlight the ASCE Structural Engineering Institute Boston Chapter and feature one or more articles on the theme of Structures.

Editorial Board members meet monthly via conference call to plan upcoming issues of the newsletter. They also solicit, write and/or review newsletter articles.

For more information on how you can become a BSCESNews contributor, contact BSCES Newsletter Editorial Board Chair Mike Cunningham at mcunningham@kleinfelder.com or BSCES Association Manager Rich Keenan at rkeenan@engineers.org.
Transportation Infrastructure Needed for Self Driving Cars

Marty Milkovits  
Senior Associate  
Cambridge Systematics

Dan Krechmer  
Principal  
Cambridge Systematics

Wednesday, October 19, 2016  
12:30 PM – 1:30 PM

This webinar will provide an overview of the latest technology, policy, and key planning and design considerations for the transportation infrastructure needed for self-driving cars, including case studies of the impacts of connected and automated vehicle technology (C/AV) on transportation planning, ITS and operations.

Marty Milkovits has more than 15 years of experience with expertise in estimating, implementing, validating, calibrating travel demand models, and has been involved in the early efforts to represent Connected/Autonomous Vehicles in regional models through the California High-Speed Rail project.

Dan Krechmer has over 40 years of experience in transportation planning, and has specialized in Intelligent Transportation Systems for the past 23. His focus is on ITS planning and operations for state, regional and local agencies including recent experience in connected/automated vehicle technology.

Registration Deadline: Monday, October 17, 2016  
$70 Members, $100 Non-Members  
Unlimited viewers per registered seat

Information/Registration:
Register for a seat to the webinar and pay by credit card online at http://bit.ly/TDI-101916. 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 October 17, 2016 will be billed.

Two days prior to the webinar, a link for www.gotowebinar.com will be emailed to all registrants along with instructions to login for the event. Please feel free to email tdi.bces@gmail.com if you have any questions.
The Flint Water Crisis: Keeping the Citizens of Flint Safe

Emily Garner, PhD Student, Virginia Tech

Thursday, October 20, 2016
Northeastern University, Snell Library (Room 90) 360 Huntington Ave, Boston, Ma
5:30 PM Social/Registration and Refreshments; 6:30 PM Presentation

The Flint Water Crisis is one of the most significant public health issues that our country has faced in recent history. The uncovering of elevated levels of lead in the City of Flint Michigan’s drinking water shook the City and the Nation’s confidence in their public water supply and led to regulatory action from water utilities and environmental agencies across the country. The monetary cost of rectifying this issue will undoubtedly be immense but the social cost of the exposure is yet to be fully realized. Throughout the crisis, the citizens of Flint turned to Virginia Tech researchers to be their voice as an unbiased outside party. They allowed the researchers into their homes so that the depth of the issue could be understood and actions could be taken to address the problem.

Please join us to hear Ms. Garner speak on how the Flint Water Study team at Virginia Tech uncovered the water quality issues in Flint. Emily Garner is currently a PhD student at Virginia Tech studying Environmental and Water Resources Engineering. She is a member of the Flint Water Study team led by Dr. Marc Edwards that worked with citizens of Flint, Michigan to identify unsafe levels of lead in their drinking water and advocate for a resolution. She will present about her team's journey to provide the citizens of Flint with scientific evidence to support their claims that their drinking water was unsafe for consumption.

Registration Deadline: Friday, October 14, 2016
$50 Members, $65 Non-Members, $45 Public Sector Members
$50 Public Sector Non-Members, $20 Students & Senior Members (65+)
$500 Table of 10

Information/Registration:
Appetizers and beverages will be provided prior to and after the presentation. Register to attend this meeting and pay by credit card online at http://bit.ly/EMG-102016. 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 October 14, 2016 and no-shows will be billed.
NCEES Information Session

Paul Tyrell, PE, PLS
Chief Civil Engineer & Senior Associate, STV, Inc.
Vice Chair, Massachusetts State Licensing Board

Wednesday, October 26, 2016
Nitsch Engineering, 2 Center Plaza, Suite 430, Boston, MA
5:30 PM Registration; 6:00 PM Presentation

Have you been wondering about the engineering and surveying exams? Do you have questions about engineering licensure? Join the BSCES Younger Member Group for an informative dinner session with Paul Tyrell, PE, PLS, NCEES Speaker and Vice Chair of the Massachusetts State Licensing Board.

For more information, contact BSCESYMG@gmail.com.

Registration Deadline: Friday, October 21, 2016
$5 Students
$10 Members
$15 Non-Members

Information/Registration:
Register to attend this meeting and pay by credit card online at http://bit.ly/2016NCEES. 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 October 21, 2016 and no-shows will be billed.
Mark Your Calendar!

Boston’s Secret Bridge and More – Massport’s Thomas J. Butler Freight Corridor Project

Sam Sleiman, PE, CCM
Director, Capital Programs & Environmental Affairs, Massachusetts Port Authority

Wednesday, November 9, 2016
Wyndham Hotel, 5 Blossom Street, Boston, MA 02114
6:00 PM Registration, Social and Pizza, 7:15 PM Presentation

The Massachusetts Port Authority (Massport) is undertaking a major expansion and modernization of its Paul W. Conley Terminal in South Boston, New England’s premier container port facility. The first stage of the project – the Thomas Butler Dedicated Freight Corridor and Buffer Open Space, is now well into construction. It consists of improvements which will mitigate impacts of current and future operations on the abutting neighborhoods, provide tangible benefits to the larger community, and demonstrate Massport’s commitment to being a good neighbor.

The major project elements include a new 2/3 mile roadway which will remove nearly 1,000 container truck trips per day from East First Street, and a nearly 4-acre public open space which will buffer residences from the new roadway and expanded terminal. The buffer space will be heavily landscaped and includes a multi-use path, providing a new linear open space connection to existing parks along the Harbor. The project also includes a relative rarity within Boston city limits: A significant new over-water roadway crossing, on a new alignment.

Please join us to learn more about the bridge, the roadway, the park, and other elements of this exciting – yet somewhat “under the radar” project.
November 14, 2016
The University of Massachusetts Club
One Beacon Street, Floor 32, Boston, MA 02108
5:30 PM Registration & Reception; 6:30 PM Opening Remarks; 7:00 PM Dinner; 7:45 PM Keynote Address & Remaining Program

When Michael S. Dukakis was elected Governor in 1974, he inherited a record deficit and record high unemployment and is generally credited with digging Massachusetts out of one of its worst financial and economic crises in history. After losing the 1978 gubernatorial election, Dukakis defeated Edward King, was elected Governor in 1982, and reelected to an unprecedented third four-year term in 1986 by one of the largest margins in history. In 1986, his colleagues in the National Governors’ Association voted him the most effective governor in the nation. In 1988, he was the democratic nominee for the President of the United States.

Since June 1991, Dukakis has been a Distinguished Professor of Political Science at Northeastern University and Visiting Professor at the School of Public Policy at UCLA. His research has focused on national health care policy reform and the lessons that national policy makers can learn from state reform efforts. In 1998, Dukakis was nominated by President Clinton and served a five-year term as a member of the Board of Directors of Amtrak.

During his keynote address, Dukakis will discuss a North South Rail Link connecting Boston’s North and South Stations and the importance of investing in public transportation.

Honor Award Winners and Newest Honorary Members:
Please join us for an evening celebrating BSCES and the engineering profession. BSCES will recognize new leaders, present annual awards, and honor our newest Honorary Members, Former Governor Michael S. Dukakis and Founding Principal of Nitsch Engineering, Judith Nitsch, PE. Space is limited for this event, register today!

168th BSCES Annual Awards Dinner:
You can use this form to register one or more attendees. Please fill in the number of people you wish to register for the appropriate price point and add up the total attendees and total amount. If registering multiple attendees, please forward their names and contact information to bscesreg@engineers.org.

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Register Online: Register and pay by credit card online at: http://bit.ly/168thBSCESAnnualAwards. To receive the member price you must login using your BSCES assigned username and password. If you do not know your login information call 617/227-5551.

Register by Mail or Email: You may also register by mail or email. To do so, complete the registration form below and email to bscesreg@engineers.org or mail to: BSCES, The Engineering Center, One Walnut Street, Boston, MA 02108-3616.

Registrant Information:
Name (s): ____________________________
Organization: _________________________
Address: ______________________________
Telephone: ___________________________
Email: ________________________________

Credit Card: Please bill my (Check one):
[ ] Visa [ ] MasterCard [ ] American Express
Name On Credit Card: _______________________
Credit Card Number: _______________________
Billing Address: ___________________________
Expiration Date: _________________________
Signature: ______________________________

Check: When paying by check, please make checks payable to “BSCES” and mail with your completed Registration Form to the above address.

Registration Deadline: Friday, November 4, 2016
No-shows and cancellations received after Friday, November 4 will be billed. For questions please call 617/227-5551. No phone registrations.

Keynote Speaker:
Former Massachusetts Governor
Michael S. Dukakis
Distinguished Professor of Political Science
Northeastern University
This training examines current practices, while addressing new and emerging technologies available to bridge inspectors. In addition, the course features classroom training; hands-on workshops for popular types of nondestructive evaluation (NDE) equipment; and a case study.

The first day of the training focuses on the concept of fracture critical members (FCMs), FCM identification, failure mechanics, fatigue in metal, and an overview of NDE methods. Day two includes demonstration sessions and hands-on applications of NDE techniques for dye penetrant, magnetic particle testing, Eddy current testing, and ultrasonic testing. Days three and four emphasize inspection procedures and reporting for common FCMs, including problematic details, I-girders, floor beams, trusses, box girders, pin and hanger assemblies, arch ties, eyebars, and cross girders/pier caps. The course will conclude with a case study detailing the preparation of an inspection plan of a fracture critical bridge.

Please note: Prior to taking this course, participants should have completed NHI course 130055, Safety Inspection of In-Service Bridges, or possess equivalent field experience relative to bridges. Participants also should have a thorough understanding of bridge mechanics and bridge safety inspection procedures as required by the National Bridge Inspection Standards. Please visit the NHI website at www.nhi.fhwa.dot.gov or contact them at 703/235-0500 for additional information on the prerequisite course requirements.

Registration Deadline: Friday, October 28, 2016
Registration Fees: $1,500 Members, $1,800 Non-Members
Registration fee includes course materials, continental breakfast, breaks, and lunch.

Information/Registration:
Attendance for this program is limited to 30 participants. Individuals who attempt to register after the course is closed will be added to a waiting list.

Reservations will be accepted on a first-come first-serve paid reservation basis. Payment must be received with registration to secure a slot. Register to attend this course and pay by credit card online at http://bit.ly/NHI-112916. 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 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 or no shows after October 28, 2016 will be billed.
The major goals of this course are to refresh the skills of practicing bridge inspectors in fundamental visual inspection techniques; review the background knowledge necessary to understand how bridges function; communicate issues of national significance relative to the nations’ bridge infrastructures; re-establish proper condition and appraisal rating practices; and review the professional obligations of bridge inspectors. This course is based on the “Bridge Inspector's Reference Manual,” 2002 (updated 2006), with reference to the AASHTO Manual as defined by the National Bridge Inspection Standards regulation.

Core course topics include inspector qualifications and duties, bridge mechanics, record keeping and documentation, fatigue and fracture in steel bridges, traffic safety features, safety, National Bridge Inventory (NBI) component ratings, superstructure type identification, inspection techniques and case studies for decks, superstructures, bearings, substructures, channels and culverts, and a mock bridge inspection classroom exercise. Optional topics include inspection of truss gusset plates, adjacent box beams, and post-tensioning tendons.

Registration Deadline: Monday, December 19, 2016
Registration Fees: $1,400 Members, $1,700 Members
Registration fee includes course materials, continental breakfast, breaks, and lunch.

Information/Registration:
Attendance for this program is limited to 30 participants. Individuals who attempt to register after the course is closed will be added to a waiting list.

Reservations will be accepted on a first-come first-serve paid reservation basis. Payment must be received with registration to secure a slot. Register to attend this course and pay by credit card online at http://bit.ly/NHIBridgeRefresher2017. 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 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 or no shows after December 19, 2016 will be billed.