

Shea Concrete Products Celebrates 70 Years and Brings "Precast Days" to New England

by Hugh Scott, Shea Concrete Products

This year marks a very special occasion for Shea Concrete Products as well as an exciting time in the precast concrete industry. Shea Concrete Products was honored to recently celebrate its 70th anniversary at its four manufacturing facilities, marking seven decades since its founder Ernie Shea first planted the seed of what would become Shea Concrete, operating out of his family's backyard starting in 1949. Since that time operations have expanded, staff has put in thousands and thousands of hours of hard work and dedication, and the company has grown into New England's premiere precaster. Now, 70 years later, Shea Concrete was thrilled to celebrate and welcome friends, family, and industry partners into its production facilities to mark the occasion.

A 70th Anniversary Celebration at Shea Concrete's Amesbury, MA Headquarters closed out two exciting weeks of recognition and celebration, and coincided with a special event hosted alongside the National Precast Concrete Association (NPCA) called Precast Days. This was a chance for precasters to open their doors



Celebrating Four Generations (The Shea Family)

and provide a "behind the scenes" look at the precast manufacturing process and demonstrate the equipment, technology, and engineering expertise that goes into making resilient precast concrete products.

Shea Concrete set aside four days to welcome visitors to each of its precast concrete production facilities. After hosting open houses, hard-hat

continued on page 2

President's Report

by Richard Maher, PE, Managing Associate, Perry Associates, LLC



Change Management. Civil engineers are leaders in change management by planning, designing and constructing project solutions that provide a tangible impact and benefit to the private and public sectors.

The solutions providing skills that civil engineers possess are being challenged by the compounding impacts of COVID-19 at home and in the workplace.

At this point in time, we have gone through the initial change in the workplace and home

environments. As we progress through the learning curve, we will be gaining new methods to accomplish our tasks. As we plateau in our new environments, we will gain predictability and efficiency in tasks performed. But to successfully progress through the process we must pace ourselves; this is a marathon, not a sprint.

For as much that is changing, many things will remain the same. Since 1848, BSCES has provided a stable place of knowledge and support for its members. I am grateful for having a strong group of member volunteers whose

UPCOMING EVENTS

Engineering Consulting: Market Updates Webinar May 13, 2020

Engineers and Land Surveyors Day at the State House May 14, 2020

Construction Cost Estimating Webinar June 8, 9, 10, and 12, 2020

FHWA-NHI-130053 Bridge Inspection Refresher Training September 29 – October 1, 2020

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

November 30 – December 10, 2020

Further Details Inside



2019–20 Society Sponsors:

AECOM Imagine it. Delivered.

earthsoft

PERRY ASSOCIATES

SHEA CONCRETE PRODUCTS

KELLER

participation in various institute chapters, committees and technical groups is critical to our Society's ongoing success. We will get through these changing times with the skills we already possess, gain new skills and apply them in creative ways to build a stronger BSCES.

BSCES is continuing to progress through the changing times by introducing the BSCES Lunchtime Zoom Webinar Series. These webinars are being offered as a no cost member benefit. Please consult the [BSCES events webpage](#) for an

continued on page 5

2019–2020 BSCES Board of Government

President: Richard D. Maher, PE

President-Elect: Bruce L. Jacobs, PhD, PE

Secretary: Kathryn Swanson, PE

Treasurer: Gregory L. Miriliss

Assistant Treasurer: Anthony M. Richardson, PE

Senior Vice Presidents: Shallan C. Fitzgerald, PE;
Ronald K. Burns, PE, LSP

Vice Presidents: Michael R. Cunningham, PE;
Christopher P. Hersey

Past President: Geoffrey B. Schwartz, PE

Western MA Branch Vice President: Vacant

Institute Chapter & Technical Group Chairs

COPRI Boston Chapter: Bryan N. Jones, PE

Construction Institute Boston Chapter: Andrew Giocondi, PE

Engineering Management Group: Daron G. Kurkjian, PE

EWRI Boston Chapter: Marc J. Gabriel, PE

Geo-Institute Boston Chapter: Laurie A. Gibeau, PE

SEI Boston Chapter: Michael A. Cruz, SE

T&DI Boston Chapter: Kayla (Arruda) Sousa, EIT

Younger Member Group: Elisa K. Yung

BSCES Newsletter Editorial Board

Chair: Sean Horan, EIT, sean.horan@gza.com

Ronald K. Burns, PE, LSP, rburns@arcadia-tec.com

John C. Cavanaro, PE, JCavanaro@cavanaroconsulting.com

Bryon Clemence, PE, bclemence@verizon.net

Michael R. Cunningham, PE, MCunningham@kleinfelder.com

Annahid Dastgheib-Beheshti, PE, anna.beheshti@arup.com

Jessica DeBellis, PE, jdebells@geiconsultants.com

Bruce L. Jacobs, PhD, PE, bruce.jacobs@earthsoft.com

Richard F. Keenan, rkeen@engineers.org

Richard D. Maher, PE, rich@perryassociatesllc.com

David M. Manugian, PE, dmanugian@bedfordma.gov

Angus J. O'Leary, PE, GOleary@kleinfelder.com

Daniella Roitman, Daniella.roitman@gza.com

Matthew I. Shuman, PE, mshuman@watertown-ma.gov

Michael Sullivan, PE, msullivan@cmeengineering.com

Kathryn Swanson PE, SwansonK@cdmsmith.com



Boston Society of Civil Engineers Section/ASCE

The Engineering Center, One Walnut Street, Boston, MA 02108

Phone: 617/227-5551, Fax: 617/227-6783

Email: bscs@engineers.org, Website: www.bscs.org

BSCES' newsletter, *BSCESNews*, is designed to provide information and opinion in regard to the subject matter covered. BSCES and its Board assume no responsibility for statements made or opinions expressed in this publication. It is published with the understanding that the Board and the authors are not engaged in rendering legal, accounting or other professional services. If assistance is required, the services of a competent professional should be sought. The Newsletter Editorial Board encourages reproduction of *BSCESNews* with appropriate acknowledgment. © 2020 BSCESNews.

Shea Concrete Products Celebrates 70 Years

continued from page 1

tours, and food truck celebrations at its Nottingham, NH; Rochester, MA; and Wilmington, MA facilities, Shea Concrete capped off the first annual "Precast Days" initiative with a major celebration at its Amesbury, MA headquarters facility.

As proud as Shea Concrete is of all the hard work, determination, and innovation its team members have put into growing the business

throughout its history, having friends and families together to mark the occasion was truly something special. Shea Concrete sincerely thanks everybody who came out to help make the 70th Anniversary Celebration and first annual "Precast Days" a success and is looking forward to everything the next 70 years has in store.



Where Were You in 52?



The Shea Way—NPCA Certified Plants



70th Anniversary & Precast Days Celebration (Amesbury, MA)

Volunteerism Abroad—Ongoing Work at the Northeastern University Chapter of Engineers Without Borders USA

by Peter Botticello, EWB-USA NEU Chapter President

At Northeastern University, our engineering curriculum is bolstered by experiential learning through co-op internships, where students spend between 6 and 18 months working in real-world engineering industries. For six months at a time, Northeastern University civil engineering students work at consulting companies, construction companies, and public works departments among a variety of other types of engineering companies to gain valuable experience before graduating.

Since 2005, Northeastern civil and environmental engineering students have had an additional opportunity to gain experience in the field by participating with Engineers Without Borders, an organization whose mission is to provide necessary infrastructure in developing communities across the globe. Northeastern University Engineers Without Borders (EWB-USA NEU) has worked in 11 communities across Panama, Uganda, Honduras, and Guatemala, providing water infrastructure to communities who did not previously have access to potable drinking water. Through partnerships with community leaders, technical assistance from engineering professionals, and financial support from generous individuals and corporate donors, EWB-USA NEU provides innovative engineering solutions to communities in need, all while providing students with transformative, educational experiences.

Currently, EWB-USA NEU has active projects in Panama, Uganda, and Guatemala. In Panama, students have recently completed a five-year water distribution project in a rural community called Las Delicias. The re-engineered system provides clean and potable water to approximately 500 community members' homes. The EWB-USA NEU Panama team is also in the beginning stages of a new water distribution project in a

nearby community called La Pedregosa. In Uganda, EWB-USA NEU is working on a similar water distribution project in the community of Nakyenye, Uganda. Using experience from a recently completed 11-year water project in Bbanda, Uganda, students have begun designing a groundwater fed distribution system which could provide up to 1,600 community members with potable water. Students recently returned from a drilling trip, where they oversaw the installation of the community's first deep bedrock water well. In addition to water distribution projects, EWB-USA NEU started its first structural project in 2018 in Chuixil, Guatemala. Students working on this project have completed design for a school building which will house roughly 50 school children and be complete with a kitchen, storage area and separate building for latrines. The team is tentatively planning on constructing the school in 2020, depending on travel restrictions.

Each of these projects are possible through the help of our professional mentors. These are engineers, geologists, and scientists in the Greater Boston area who assist with the design, execution, and logistics of these projects. They provide valuable technical and professional guidance for our students, and their experience is invaluable to the success of our projects. Below are the mentors who currently work on our projects.

Panama

- Mike Sanders, PE
(Kleinfelder, Water Resources)

Uganda

- Kelsey Dunn, PE
(SGH, Building Technology)
- William Clunie, PE
(AECOM, Water Resources)

continued on page 4



Mitchell Martin (EnvE, '22) measures the dimensions of an existing storage tank in our new partner community of La Pedregosa in Panama.



In Uganda, Helena Hollauer, C.G. teaches Britta Johnston (BioE, '22), and Spencer Evert (CivE, '22) about the water well drilling process.

CELEBRATING 70-YEARS & "PRECAST DAYS"



(978) 388-1509 SHEACONCRETE.COM



Headquarters: 87 Haverhill Road, Amesbury, MA

Engineers Without Borders

continued from page 3

- Helena Hollauer, CG (EnviroTech, Geologist)
- Tim McGrath, PE, PhD (Retired, Geotechnical)

Guatemala

- Ron Burns, PE, LSP (Arcadia Technology, Structural)
- Zachary Lozon (SGH, Structural)
- Cliff Bouchereau (Arup, Structural)

To achieve our mission, EWB-USA NEU also partners with companies in the civil and environmental industries across the Greater Boston area. Our partners provide us with

financial assistance and technical support, and the projects would not be possible without them. If you or your company is interested in learning more about EWB-USA NEU, please don't hesitate to contact Peter Botticello at president.ewbneu@gmail.com. While everyone is currently working at home, EWB-USA NEU is still offering to give virtual presentations so anyone that is interested can learn how to get involved.

If you'd like to subscribe to our mailing list for quarterly updates regarding our chapter and projects, please reach out to recruitment. ewbneu@gmail.com. You can also follow our [LinkedIn](#), [Facebook](#), [Instagram](#), and [Twitter](#) pages.



Rishi Shah (BioE, '20) takes a soil sample in Guatemala using a hand auger while Matt Burmeister (CivE, '20) and Lauren Grove (BioE, '22) look on.

Making Civil Engineering Connections with NUCEAO

by Anna Dastgheib-Beheshti, PE, Civil Engineer, Arup

Northeastern University Civil Engineering Alumni Organization (NUCEAO) was formed in 1978 with the original intent of assisting engineering students and aiding the Northeastern University student chapter of the American Society of Civil Engineers. NUCEAO is open to all alumni, faculty, and administrative staff of the Northeastern Civil and Environmental Engineering departments, and forms the core of the civil and environmental engineering alumni base.

NUCEAO provides speakers for department and student organization seminars, supports the civil engineering student body through mentoring and event assistance, and also funds scholarships, and awards. NUCEAO aims to expand member and student connections within the alumni network, providing a platform for personal and professional opportunities by hosting events throughout the year.



NUCEAO alumni members participating at a Northeastern University event

The Annual Alumni Dinner is held on Northeastern University's Boston campus in late spring. Every year alumni return to campus to hear university and department updates, and to honor an outstanding alumnus/a. This tradition promotes relationship building across all

graduating classes and is a great way for alumni in the area to reconnect with the student base and the university.

As with NUCEAO, alumni who have remained in the Boston area have a long history of participating in various BSCES activities, holding committee positions, and supporting ASCE through both the Northeastern student chapter and the national chapter. Fostering a sense of community through outreach and programming, as well as promoting networking within civil engineering, has always been a shared goal amongst the groups. If you are a Northeastern alumnus/a in the BSCES network and are interested in getting more involved with NUCEAO, please reach out to our executive board!

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 400 to 900 words, *BSCESNews* featured articles are about technical topics or professional matters of interest to civil engineers. The June 2020 issue of the newsletter for example, will highlight the ASCE Coasts, Oceans, Ports and Rivers Institute Boston Chapter and feature one or more articles on the theme of Emergency Preparedness.

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 Sean Horan at Sean.Horan@gza.com or BSCES Association Manager Rich Keenan at rkeen@engineers.org or at 617/305-4110.

BSCES Awards Nomination Deadline Extended

by Emily Devane, Membership Associate, BSCES

BSCES has extended the employer, section, and sustainability awards nomination deadline to Monday, June 1, 2020. BSCES members are encouraged to review the descriptions of these awards below and to nominate a colleague, friend or organization that deserves special recognition by downloading, completing and submitting the appropriate award nomination form on or before this extended submission deadline. Award recipient nominations will be reviewed by the responsible volunteer groups and forwarded to members of the BSCES Board of Government who will select the award recipients. You may contact BSCES Vice President and Awards Committee Chair Christopher Hersey at vice.president2@bsces.org or 617/590-5546 if you would like to discuss a nomination or have any questions.

The **Large and Small Employer Recognition Awards** are presented to organizations that encourage their engineers to actively participate in ASCE and BSCES activities; allows engineers time off to attend Society meetings and seminars; supports and encourages technical and professional growth; encourages engineers to prepare articles for publication in Society professional and technical journals; and, assists in the payment of Society dues. The awards committee will review the nominations and select an exemplary small employer and a large employer in the Section. Organizations with less than 50 employees are eligible for the Small Employer Award.

The **Sustainability in Civil Engineering Award** is intended to recognize a Massachusetts civil engineering infrastructure project constructed within the last three years that exemplifies the principles of sustainability espoused by the Institute of Sustainable Infrastructure (ISI).

Such projects prominently and creatively incorporate the five sustainability indicators of quality of life, leadership, resource allocation, natural world, and climate risk. To be eligible, a project must demonstrate adherence to the principles of economic, social, and environmental sustainability as identified by ASCE/ISI criteria for sustainable infrastructure. The project must have been designed by a team of civil engineers based in Massachusetts, and must have been constructed within the last five years.

The recently revamped **BSCES Section Awards** are given to individuals who have made significant contributions to the civil engineering profession and their communities:

The **Citizen Engineer Award** is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education at all levels, non-profit volunteer organizations, community activities and similar activities improving the image of ASCE, BSCES and civil engineering.

The **Clemens Herschel 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.

The **College Educator Award** is presented to a member of the academic community who inspires and encourages civil engineering students through exceptional teaching and mentorship. Educators empower students to realize full potential and exemplify the profession in their classroom.

The **Engineer of the Year Award** is presented to a BSCES member, with 15 years or more

professional experience, who has exhibited extraordinary leadership in the form of managerial leadership, technical excellence, professional integrity, and mentorship of other engineers.

The **Government Civil Engineer 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 Massachusetts authority.

The **Horne/Gaynor Award** is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

The **Journalism Award** is presented to an individual who writes about engineering topics, particularly civil engineering, in a manner that benefits the profession.

The **Pre-College Educator Award** is presented to a member of the K-12 education community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career.

The **Project of the Year Award** is presented to a BSCES member and her/his project team who has served in a major role on an innovative, challenging, unique, and/or complex project located in the Commonwealth of Massachusetts. The majority of the work should have been completed by engineers located within Massachusetts.

The **Younger Member Award** is intended to recognize a member, 35 years of age or less on February 1st in the year of the award, who has made an outstanding contribution to the society.

President's Report

continued from page 1

updated list of events, including the Lunchtime Series webinars.

Each spring BSCES holds its annual election for Board of Government and Nominating Committee positions. Voting members should review the nominees and submit their vote. BSCES is managed by members for members. Please complete your online election ballot.

BSCES is also continuing the tradition of recognizing industry leading persons, companies

and projects for its various annual awards. Nomination forms for the BSCES **Employer Recognition**, **Section and Sustainability in Civil Engineering Awards** are currently available online. Please take the time to submit a nomination for these prestigious awards by June 1st.

We are encouraged by the industry support of BSCES and always welcome new member participation. Please contact us at bsces@engineers.org for more information of how to be get involved or support BSCES. In the meantime, practice good change management at home and in the workplace. Together, we will all make it across the finish line.

This issue of *BSCESNews* is focused on the Younger Member Group and has a theme of Outreach & Volunteerism. Be sure to read page 6 featured group article written by Elisa Yung from HNTB.

I would like to once again thank our Society Sponsors especially Shea Concrete Products, which is sponsor of this April newsletter. Please be sure read the article submitted by Shea Concrete for publication in this issue of *BSCESNews*. Entitled "Shea Concrete Products Celebrates 70 Years and Brings 'Precast Days' to New England," this article can be found on page 1.

Featured Group

BSCES Younger Member Group

by Elisa Yung Civil Engineer, HNTB, and BSCES Younger Member Group Chair

The mission of the BSCES Younger Member Group (YMG) is to foster the professional growth, ethical awareness, and technical competence of the Section's younger members. The group organizes and encourages community outreach, supports engineering students at local colleges and universities, and encourages membership and participation in ASCE and BSCES committees, institute chapters, technical groups, and other activities.

The YMG typically hosts a minimum of one event each month. These events vary from social events and sports competitions to technical learning opportunities and presentations. The events serve as an opportunity for young engineers and undergraduate students to meet peers, expand their professional network, and learn about other companies and services within the industry. The events allow for people to have fun while developing technical and soft skills to support their careers while also meeting people that may help them along the way.

Events are organized by the YMG through monthly meetings, which are attended by the YMG committee comprised of over 20 volunteers, and open to all who are interested in joining or learning more. The group uses the meetings as an opportunity to recap past events, plan future events, review the annual budget, and discuss volunteer opportunities. Below is a list of the technical and social events that YMG has hosted this year:

- Civil Engineering Trivia
- Winthrop Tower Construction Tour
- Senior Technical Talk
- Executive Lunch Presentation
- Holiday Party
- Billiards Tournament
- Networking Socials and Meetups

The YMG has also taken a strong focus on outreach and community involvement this past year through the events below. YMG is so thankful for all of the time that the group members have volunteered thus far!

- The YMG hosted another Holiday Meal Drive—**Hunger Free Holidays**—through the Greater Boston Food Bank (GBFB), raising just over \$1,000 for local families in need of nutritious meals.

- **GBFB Sorting Event:** Volunteers helped package 144 boxes of food to be distributed to families in need.
- The YMG attended the **Friday Night Supper Program** at Arlington Church twice this year. Volunteers served meals to those in need.
- **Rosie's Place Drive:** In conjunction with a social meetup, the YMG collected donation items for Rosie's Place, the first women's shelter in the United States.
- The YMG will be volunteering at **Cradles to Crayons** and at the Charles River Earth Day this year!

Additionally, the YMG includes the Student Chapter Committee, which supports 10 Massachusetts ASCE student chapters in the region. The student chapter committee chair and the designated liaisons for each school provide the schools with information about upcoming events, scholarship opportunities, grants, and provide volunteer support for the school's events. This year, the YMG presented panels at several schools, engaged students to submit for scholarships and awards, and hosted the annual ASCE Fall Leadership Student Caucus at Tufts University. The Student Caucus included a dinner and networking event, a presidential address, a note from the ASCE region I governor, and an interactive activity focusing on challenges and solutions for student leaders. The YMG also helps SGH organize an annual Student Night each year. This event includes a keynote presentation and an award ceremony in which selected student chapter members are awarded scholarships by BSCES and SGH. Unfortunately, the event was cancelled this year. The BSCES scholarships were still awarded but the SGH scholarship was not. We hope that our keynote speaker will have a chance to attend another event later this year.

The YMG is excited and hopeful for our upcoming events we have planned, including the Junior Tech Talk, Red Sox Game, and an end of the year party.

We hope to see you at future events! Please email ymg@bsces.org if you would like to get involved or have any questions.

Follow the YMG on [LinkedIn](#), [Facebook](#), and [Twitter](#) to stay up to date on upcoming events.



Volunteers from YMG getting ready to serve meals during the Friday Night Supper program at Arlington Church.



20 members of the BSCES YMG attend the Winthrop Tower Construction Tour led by Brian Tafe of Suffolk.



YMG members helping package over 100 boxes of food at the Greater Boston Food Bank.

Recent News and Updates

BSCES Welcomes New Members

The BSCES Board of Government is pleased to welcome the following new members who joined BSCES during the months of January, February, and March 2020:

Affiliate Members:

Ryan Couto, Boston, MA
Adriano Goncalves, Boston, MA
Colin Kraus, Boston, MA
Jason Lavoie, Taunton, MA
Tyler Jacob Monczka, Westfield, MA
Media Sehatzadeh, Norwood, MA
Sahil Sharma, Cambridge, MA

Associate Members:

Timothy Adams, EIT, Boston, MA
Nicholas Bateman, Forestdale, MA
Sarah Bergman, Boston, MA
Debbie Cheng, Boston, MA
Vargas I Dasilveira, Dorchester, MA
Emily Catherine Glennon, North Attleboro, MA
Kristopher Landry, Wellesley, MA
Taylor Leidner, South Dennis, MA
Brendan Madsen, Boston, MA
Shaun McKenna, Malden, MA
Niloofer Montazeri, PhD, Chestnut Hill, MA
Michael Pugsley, Boston, MA
Heather Shanks, Fall River, MA
Christopher Trudel, EIT, North Dighton, MA
Keegan True, Scituate, MA
Bryan Walsh, Groveland, MA
Justin White, Boston, MA

Members:

Cory Brett, PE, Waltham, MA
John G. Buck, PE, Boston, MA
Amy Cohen, PE, Chelmsford, MA
Tristan Donovan, PE, Quincy, MA
Seth Hamblin, PE, North Chelmsford, MA
Francis Patrick Harrigan, II, PE
Robert Ouellette, PE, Old Lyme, CT
Barbara Reardon, PE, Canton, MA

Student Members:

Charlotte Adelson, New York University Tandon School Of Engineering
Muhammad Awais Akhtar, University of Massachusetts Lowell

William Alban, University of Massachusetts, Lowell
Shane Almeida, University of Massachusetts Dartmouth
Yusuf Alobaidli, Northeastern University
Brandon Joseph Brandon Arruda, University of Massachusetts Dartmouth
Jenah Arsenault, Wentworth Institute of Technology
Hayat Azoui, University of Massachusetts Lowell
Sheila Baber, Massachusetts Institute of Technology
Katie Baker, Northeastern University
Kevin Barros, University of Massachusetts Lowell
Megan Barstow, Smith College
Morgan Beals, Northeastern University
Eric Beaudry, University of Massachusetts Dartmouth
Joseph Beaulieu, University of Massachusetts Lowell
Riley Beauregard, Wentworth Institute of Technology
Markelian Berdufi, Wentworth Institute of Technology
Rhea Bhansali, Polytechnic University Of New York (NYU)
Shannon Bruce, Bunker Hill Community College
Nicholas Brunetto, Northeastern University
Matthew Burmeister, Northeastern University
Alex Burnam, Tufts University
Brenden Chapman, Wentworth Institute of Technology
Matthew Chin, University of New Haven
Deya Chouiki, University of Massachusetts Lowell
Erika Christensen, Northeastern University
Melanie Christensen, Case Western Reserve University
Joseph Ciruolo, Jr., University of Massachusetts, Lowell
Joyce Cortez, University of Massachusetts Lowell
Evan Costa, University of Massachusetts Dartmouth
Ryan Danyluk, Wentworth Institute of Technology
Kim Dao, Tufts University
Adam Drake, Roger Williams University
Harrison Dubois, Northeastern University
Barbara Dutra, Pennsylvania State University - University Park
Nahla Elhallaq, Wentworth Institute of Technology
Andrew Ellison, University of Massachusetts Lowell
Gardythe Ernest, University of Massachusetts Dartmouth
Michael Fenney, University of New Haven
Daniel Fils-Aime, Northeastern University
Remy Fung, Northeastern University
Taylor Furbish, Northeastern University
David Garza, Gonzaga University

Samuel Gobeille, Messiah College
Brian Goekler, Northeastern University
Pedro Gonzalez, University of Massachusetts Amherst
Christopher Gouveia, I, University of New Hampshire
Jean Guerrier, University of Massachusetts Dartmouth
Liam Henderson, University of Massachusetts Lowell
Christopher Hoerrner, Tufts University
Yijiang Huang, Massachusetts Institute of Technology
Colby Jensen, Worcester Polytechnic Institute
Deniz Keles, Smith College
Timothy Kelley, Jr, Wentworth Institute of Technology
Seth Krause, P.E., Northeastern University
Anne Lamonte, Northeastern University
Samantha Langeleh, University of Vermont
Moritz Langner, Northeastern University
Alec Lazieh, Northeastern University
Dayna Logab, University of Massachusetts Dartmouth
Trevor Lopez, University of Massachusetts Amherst
Kathryne Lovell, University of Massachusetts Amherst
Ian Macdonald, University of Massachusetts Amherst
Ipek Benu Manav, Massachusetts Institute of Technology
Meghan McCallister, Northeastern University
Bri McMullan, Wentworth Institute of Technology
Michael Medeiros, University of Massachusetts Dartmouth
Robert Melvin, University of Massachusetts Amherst
Ryan Menard, Worcester Polytechnic Institute
Gina Mician, University of Massachusetts Lowell
Emily Minner, Northeastern University
Mahdi Mirzaeyi, Islamic Azad University of Arak
Fatimah Mohammed, Worcester Polytechnic Institute
Kate Julia Moloney, Northeastern University
Ryan Morgan, State University of New York at Cobleskill
Mary Lhyn Nguyen, Wentworth Institute of Technology
Uillia O'Connell, Middlesex Community College
Buen Salvamari Orbiso, University of Massachusetts Dartmouth
Claire Orkild, Northeastern University
Maximilian Pavlov, University of Massachusetts Lowell
Aleksander Pelletier, Wentworth Institute of Technology
Peter Pengo, Wentworth Institute of Technology
Sarah Pfeifle, University of Massachusetts Amherst
James Pierce, University of Massachusetts Dartmouth

continued on page 8

Recent News and Updates *(continued from page 7)*

Joseph Pietropaolo, University of Massachusetts Lowell
 Julia Pope, Worcester Polytechnic Institute
 Justin Price, University of Maine
 Bhoomika Hullenhally Ramesh, Northeastern University
 Joseph Rebeiro, University of New Hampshire
 Joseph Rebeiro, University of New Hampshire
 Marcia Rojas, University of Massachusetts Amherst
 Aidan Rolli, University of Massachusetts Lowell
 Alexander Michael Roper, University of Massachusetts Amherst
 Austin Rosseau, University of Vermont
 Hanna Schenkel, Northeastern University
 Edward Skalny, Northeastern University
 Deion Smith, Northeastern University
 Mark Sogegian, Northeastern University
 Nicholas Southworth, University of Massachusetts Amherst
 Colleen Sullivan, Wentworth Institute of Technology
 Sean Sullivan, Umass Dartmouth
 Jacob Sullivan-Hasson, University of New Hampshire
 Christopher Sylvia, University of Massachusetts Dartmouth
 Yordanos Tesfaye, University of Massachusetts Lowell
 Travis Tkaczek, University of New Hampshire
 Samuel Tobin, Northeastern University
 Steven Toomajian, University of Massachusetts Lowell
 Minh Trinh, University of Massachusetts Lowell
 Joseph Uglevich, University of Massachusetts Lowell
 Niranjana Vaidya, Northeastern University
 Lana Vilcinskas, Worcester Polytechnic Institute
 Andrew Vincent, University of Massachusetts Lowell
 Jacob Wasserman, Northeastern University
 Julia Watler, Wentworth Institute of Technology
 Noah Wilcox, University of New Hampshire
 Eve Wyman, University of Massachusetts Dartmouth
 Sara Yasin, Northeastern University
 Robert Yule, University of Massachusetts Dartmouth
 Benjamin Zidelis, Wentworth Institute of Technology
 Christina Zoldak, University of Notre Dame

BSCES Past President and Honorary Member Judith Nitsch Announces Retirement

On April 1, 2020, Judith Nitsch, PE, LEED AP BD+C announced her retirement from Nitsch Engineering. Judy was BSCES president in 1986 and named a BSCES Honorary Member in 2016. Judy founded Nitsch Engineering (then called Judith Nitsch Engineering, Inc.) in

1989, and led the company as president until 2011. Since 2016, Judy has served on the board of directors and worked part-time focusing on client relationships and business development. In her statement she noted that she is particularly proud of the work she has done providing sustainable site and stormwater management design on master plan and building projects.

BSCES Past President Peter Richardson Announces Retirement from Green International Affiliates, Inc.

On April 2, 2020, Peter A. Richardson, PE, CFM, LEED AP, ENV SP announced his retirement from Green International Affiliates, Inc. at the end of May. Peter was BSCES president in 2012. Peter joined Green as project engineer in 1992 and spent 28 years at the company ultimately serving as executive vice president. In his statement, Peter said "As with anything in life, there are a few things I wish I could do over, but overall, I am proud of what I have accomplished in my professional career and I can honestly say that I helped make this world a safer and more environmentally sustainable place."

Stay Connected and Engaged with COVID-19 Resource Page

As the widespread coronavirus outbreak continues to impact daily life, you can still reach out to the ASCE community. The Society's COVID-19 Resource page has online tools and tips to work from home or office more effectively, as well as different ways to use free time you might have. This includes discussion threads with other members, career advancement opportunities and fun activities for families. [Click here for more information.](#)

#DonateYourPPE if You Have Surplus Equipment

Join the movement to #DonateYourPPE and donate any surplus personal protective equipment to hospitals. [Click here](#) to find out what materials are needed and where to donate.

Structures Congress 2021 Call for Proposals

SEI invites abstracts and sessions on topics of interest to structural engineers at every level of their career. Emphasis is on presentations that support advancing the structural engineering

profession including leadership development, innovation and novel project solutions, emerging technologies, resilience, sustainability, functional recovery, Global Climate Change, and innovative research with practical applications. Implementation of these topics to the full life-cycle of structures including design, analysis, fabrications, construction, testing and maintenance welcomes. To learn more, [click here](#).

Nitsch Engineering Announces Two New Board of Directors Members

Nitsch Engineering announce the company's continued ownership and governance transition, with two new members joining the Board of Directors as of March 30, 2020. Senior Project Manager Stephen D. Farr, PE, ENV SP, LEED Green Associate and Project Manager Jennifer L. Johnson, PE, CFM, CPSWQ, LEED AP were elected to the seven person Board of Directors by the firm's shareholders (all of whom are employees) and is tasked with the responsible management of the firm. BSCES member Stephen Farr has 30 years of experience in the engineering field. He has been a member of ASCE since 1988.

Take Advantage of ASCE's Mentor Match

[Mentor Match](#) is a tool that brings together mentors and mentees to develop workplace and technical abilities, find a proper work/life balance, resolve dilemmas and in the process perhaps even become friends.

Suggest a Seminar Topic

Is there an engineering topic that you would like BSCES to feature in an upcoming seminar? If so, members of the BSCES Program Committee would like to hear from you. Charged with developing technical training programs that address members' professional development needs, the Program Committee oversees the Society's National Highway Institute training, spring and fall Professional Engineer Refresher Courses and other topical workshops. If you have a technical topic that you would like the Program Committee to consider, send your suggestion to BSCES Program Committee Chair Jeff Lewis at jlewis@garofaloassociates.com or BSCES Association Manager Rich Keenan at rkeenan@engineers.org.

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.

INTRODUCING THE BSCES FREE LUNCHTIME ZOOM WEBINAR SERIES

Having taken the COVID-19 risk mitigation measure of canceling or rescheduling a number of spring events, BSCES leaders are pleased to announce that they plan to offer a series of free lunchtime webinars in the coming months. See below for details about the first of these programs to be organized, which will occur on May 13. Due to technology constraints, participation for each webinar is limited to 100 so register early.

Engineering Consulting: Market Updates

Sponsored by the Engineering Management Group

Wednesday, May 13, 2020

ZOOM WEBINAR

12:00 PM - 1:00 PM

Gain market updates on infrastructure projects and how engineering consulting firms are adapting from Mike Scipione, CEO of Weston & Sampson and Lisa Brothers, CEO of Nitsch Engineering. Ms. Brothers and Mr. Scipione will offer perspectives on how different size engineering consulting firms are approaching this time of unprecedented change in Massachusetts and nationally. Special focus will include the COVID-19 responses and the current and future federal, state and local policies to stimulate the economy.

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

Engineers and Land Surveyors Day at the State House

Sponsored by the Government Affairs & Professional Practice Committee

Thursday, May 14, 2020

Massachusetts State House, Boston, MA

9:00 AM - 11:45 AM

On Thursday, May 14, 2020, BSCES, ACEC/MA, and MALSCE members gather at the Massachusetts State House for the annual Engineers and Land Surveyors Day at the State House along with leaders from other engineering and design-related associations. Meetings are arranged with members' Massachusetts state representatives and state senators based on where members live and vote.

Please [click here](#) for further details.

Construction Cost Estimating

Sponsored by the Program Committee

June 8, 9, 10, and 12, 2020

ZOOM WEBINAR

8:00 AM - 12:00 PM

Presenter: Douglas D. Gransberg, PhD, PE, CCP, FRICS, M.ASCE, President, Gransberg & Associates, Inc.

This ASCE continuing education seminar gives practical guidance on construction project cost estimating, cost control, and claims analysis. Hundreds of participants have saved time and money on their projects by applying the principles and techniques set forth in this dynamic seminar. In four intensive half-day webinars, you will follow the construction cost

estimating process for both architectural building lump sum estimates and heavy civil unit price estimates. Information technology tools that can be used in estimating will also be discussed.

Particular attention is paid to the development of pricing data and understanding the perspective of owners, architects, engineers, bidders, contractors, subcontractors and other concerned parties with regard to quantifying the cost of a project's scope of work. Special attention is also focused on the how cost estimates are affected when a project is delivered using alternative project delivery methods such as design-build or CM-at-Risk. The seminar is lecture/discussion format and includes brief case studies that illustrate many of the seminar's key points.

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

[continued on page 10](#)

Attend an ASCE Seminar in Boston!

Earthquake-Induced Ground Motions
Thursday – Friday, July 16 – 17, 2020

[Click here to learn more.](#)

Deep Foundations: Design, Construction, and Quality Control
Thursday – Friday, August 6 – 7, 2020

[Click here to learn more.](#)

2019–2020 BSCES Sponsors

SOCIETY SPONSORS: AECOM | EarthSoft | Keller | Perry Associates LLC | Shea Concrete Products

PROGRAM SPONSORS: Alfred Benesch & Co. | CDM Smith Inc. | Dewberry | GEI Consultants, Inc. | Geocomp/GeoTesting Express

GeoSyntec Consultants | Green International Affiliates, Inc. | GZA GeoEnvironmental, Inc. | Haley & Aldrich, Inc.

Helical Drilling | HNTB | Horsley Witten Group | Howard Stein Hudson | Hoyle, Tanner & Associates, Inc. | Jacobs | Kleinfelder

Merrimack College | Nitsch Engineering | Department of Civil & Environmental Engineering, Northeastern University | Patrick Engineering

PMA Consultants, LLC | Simpson Gumpertz & Heger Inc. | Skanska | Stantec | Tetra Tech | Tighe & Bond, Inc. | TranSystems

Tufts University—Department of Civil and Environmental Engineering | VHB | Wentworth Institute of Technology | Weston & Sampson | WSP USA

Upcoming Events *(continued from page 9)*

FHWA-NHI-130053 Bridge Inspection Refresher Training

Sponsored by the Program Committee

Tuesday, Sept. 29 – Thursday, Oct. 1, 2020

AECOM, Boston, MA

8:00 AM – 4:30 PM

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 nation's 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.

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

Sponsored by the Program Committee

Monday, Nov. 30 – Friday, Dec. 11, 2020

Hilton Garden Inn Worcester, Worcester, MA

8:00 AM – 4:30 PM

This two-week course is based on the 2015 FHWA "Bridge Inspector's Reference Manual" (BIRM) and provides training on the safety inspection of in-service highway bridges. Satisfactory completion of this course will fulfill the training requirements of the National Bridge Inspection Standards (NBIS) for a comprehensive training course. This course is not geared towards fracture critical, underwater, or complex structures. All participants must show that they passed either of the following prerequisite courses: FHWA-NHI-130101, Introduction to Safety Inspection of In-Service Bridges or FHWA-NHI-130054 Engineering Concepts for Bridge Inspectors.

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

Rescheduled Date!

Thursday, November 12, 2020

31st Annual Francis M. Keville Dinner

Sponsored by the CI and T&DI Boston Chapters

Revere Hotel Boston Common, Boston, MA

5:00 PM Reception

6:30 PM Dinner

ASCE Webinars

ASCE WEBINARS

SUPPORT OUR SECTION

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

ASCE | CONTINUING EDUCATION

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](#).

2020 Employer Recognition Awards

The Boston Society of Civil Engineers Section of the American Society of Civil Engineers Awards Committee invites you to nominate an organization to receive the Small Employer Recognition Award or the Large Employer Recognition Award. Please see the following awards description for nomination instructions. To be eligible to receive this award your award nomination must be received by the BSCES Awards Committee no later than **Monday, June 1, 2020**.

As a means of fostering the members of the civil engineering profession, the Boston Society of Civil Engineers Section/ASCE has established an award to recognize those employers who commit to providing exceptional opportunities to their engineers. Special recognition will go to those organizations who exhibit exemplary support as evidenced by:

1. Encouraging technical and professional growth through continuing education, training, mentoring, project experience, participation in development of technical papers or presentations, and other means.
2. Tackling staff quality-of-life issues in the modern workplace.
3. Contributing to the community to make a positive impact.
4. Encouraging active participation in professional societies such as ASCE/BSCES.

Members who want an organization to be considered for recognition should provide a letter demonstrating the firm's commitment to its engineers. Firms nominated shall be actively participating in BSCES via sponsorship, employee membership, contributions to the newsletter, etc. Letters shall include the total number of employees in the firm, number of BSCES members, and cite specific examples of its employees being actively involved in BSCES.

The awards committee will review the nominations and select an exemplary small employer and a large employer in the Section. Organizations with less than 50 employees are eligible for the Small Employer Award. Awards will be presented at the 171st BSCES Annual Awards Dinner. Successful recipients will be considered for endorsement as potential (future) applicants for the ASCE Employer Recognition Award. No organization will be eligible to receive the award in consecutive years.

Complete and return this nomination form and attachment to the BSCES Awards Committee no later than Monday, June 1, 2020 to be eligible for the award.

Name of Organization: _____

Nominator/Title: _____

Address: _____

Telephone: _____ Email: _____

Signature: _____ Date: _____

Organization: _____

Contact Person: _____

Title: _____

Office Address: _____ Website: _____

Telephone: _____ Email: _____

Please attach a brief (no more than two pages) narrative describing why the organization meets the criteria described in this nomination form.

Please complete this form and the additional pages and return it via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively. For questions, contact BSCES Awards Committee Chair Christopher Hersey at 617/590-5546 or Vice.President2@BSCES.org.

Thank you for your continued support of ASCE and BSCES.

2020 Individual Section Awards

Each year, BSCES presents awards to deserving individuals in the Section or in the community who are nominated by their peers in recognition of their service. Here is your opportunity to nominate a co-worker, friend, or someone who you think deserves special recognition. Please see the following awards descriptions and nomination instructions.

The Nominations Deadline is **Monday, June 1, 2020**. The Awards Committee will review all nominations and present a list of candidates for selection by the Board of Government. Awards will be presented at the 171st BSCES Annual Awards Dinner.

I would like to nominate _____ For the:

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

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

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

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

_____ **JOURNALISM AWARD:** This award is presented to a journalist or other author who has published one or more articles, papers, books, social media blogs, or film for a non-technical audience that raises awareness of the contributions of the civil engineering profession.

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

_____ **COLLEGE EDUCATOR AWARD:** This award is presented to a member of the academic community who inspires and encourages civil engineering students through exceptional teaching and mentorship. Educators empower students to realize full potential and exemplify the profession in their classroom. Candidates shall be actively teaching in a classroom setting at a college or university in New England.

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

_____ **ENGINEER OF THE YEAR AWARD:** This award is presented to a BSCES member, with 15 years or more professional experience, who has exhibited extraordinary leadership in the form of managerial leadership, technical excellence, professional integrity, and mentorship of other engineers.

_____ **PROJECT OF THE YEAR AWARD:** This award is presented to a BSCES member and her/his project team who has served in a major role on an innovative, challenging, unique, and/or complex project located in the Commonwealth of Massachusetts. The majority of the work should have been completed by engineers located within Massachusetts.

To submit a nomination, complete this form and return it by the nomination deadline via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively.

Name and Company Address of Nominee(s)*:

Is this a re-nomination? Yes _____ No _____

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

Your Name: _____ Daytime Telephone: _____ Email: _____

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

QUESTIONS: *Contact BSCES Awards Committee Chair Christopher Hersey at 617/590-5546 or Vice.President2@BSCES.org.*



2020 SUSTAINABILITY IN CIVIL ENGINEERING AWARD

Call for Entries

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

Eligibility

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

Rules for Submission

1. Entries for the award must include:
 - A completed Entry Form ([BSCES Sustainability Award Form](#))
 - A printout of the Envision™ project assessment scoring table from the ISI website completed by an Envision Sustainable Professional (ENV SP).
2. **Entries must be submitted no later than June 1, 2020.** The winner will be announced at the BSCES Annual Awards Dinner event in 2020. Entries may be submitted electronically to bsces@engineers.org.

2019 BSCES Sustainability in Civil Engineering Award Winners

- 2019 Small Project Category: Massachusetts Department of Conservation and Recreation (DCR)/ The Lawrence and Lilian Solomon Foundation, *Greenough Boulevard Greenway Expansion*

Through a \$1.8 million public/private partnership completed in 2016, the project included enhancing public safety along the river, providing a fully accessible multi-use path next to the river, reclaiming parkland and enhancing the scenic value of the Charles River Reservation, improving the environmental quality of the Charles River, and maintaining Greenough Boulevard as a fully functional parkway.

- 2019 Large Project Category: NB Development Group, LLC, *Boston Landing Station*

Through a public-private partnership completed in 2017, NB Development Group funded and managed the design and construction of the approximately \$20 Million station in close collaboration with the MBTA and MassDOT. In November 2017, the project earned the Envision Silver Award from the Institute for Sustainable Infrastructure. The station is the first transit project in New England to achieve Envision verification, recognized in the Quality of Life category.



Boston Society of Civil Engineers Section
American Society of Civil Engineers



2019-2020
Society Sponsors
AECOM
EarthSoft
Keller
Perry Associates LLC
Shea Concrete Products

2019-2020
Program Sponsors
Alfred Benesch & Co.
CDM Smith Inc.
Dewberry
GEI Consultants, Inc.
Geocomp/GeoTesting Express
GeoSyntec Consultants
Green International
Affiliates, Inc.
GZA GeoEnvironmental, Inc.
Haley & Aldrich, Inc.
Helical Drilling
HNTB
Horsley Witten Group
Howard Stein Hudson
Hoyle, Tanner & Associates, Inc.
Jacobs
Kleinfelder
Merrimack College
Nitsch Engineering
Department of Civil and Environmental Engineering, Northeastern University
Patrick Engineering
PMA Consultants, LLC
Simpson Gumpertz & Heger Inc.
Skanska
Stantec
Tetra Tech
Tighe & Bond, Inc.
TranSystems
Tufts University – Department of Civil and Environmental Engineering
VHB
Wentworth Institute of Technology
Weston & Sampson
WSP USA

Engineering Consulting: Market Updates Executive Lunch Session



Ms. Lisa A. Brothers, P.E. and
CEO – Nitsch Engineering



Mr. Michael Scipione, P.E.
CEO – Weston & Sampson

May 13, 2020 *via Zoom Webinar*
12:00 – 1:00 pm Panel Discussion and Q&A

Gain market updates on infrastructure projects and how engineering consulting firms are adapting from Mike Scipione, CEO of Weston & Sampson and Lisa Brothers, CEO of Nitsch Engineering. Ms. Brothers and Mr. Scipione will offer perspectives on how different size engineering consulting firms are approaching this time of unprecedented change in Massachusetts and nationally. Special focus will include the COVID-19 responses and the current and future federal, state and local policies to stimulate the economy.

Ms. Brothers brings expertise in roadway, site development, sustainable and resilience design, and infrastructure-related projects. Ms. Brothers leads Nitsch Engineering, the largest Women-Owned Business Enterprise (WBE) civil engineering firm in Massachusetts. Mr. Scipione brings a wide-ranging perspective as the leader of over 600 engineers and architects in New England and the Eastern United States.

This lunch-time webinar will include brief prepared remarks followed by a Q&A session. Please bring your questions and comments for our panelists. We are pleased to have preeminent regional and national engineering leaders present to the BSCES membership.

Registration Deadline: May 11, 2019

Registration Fees Waived

[Please Click Here to Register](#)



Supported by the staff of The Engineering Center Education Trust

2019-2020
Society Sponsors
AECOM
EarthSoft
Keller
Perry Associates LLC
Shea Concrete Products

2019-2020
Program Sponsors
Alfred Benesch & Co.
CDM Smith Inc.
Dewberry
GEI Consultants, Inc.
Geocomp/GeoTesting
Express
GeoSyntec Consultants
Green International
Affiliates, Inc.
GZA GeoEnvironmental, Inc.
Haley & Aldrich, Inc.
Helical Drilling
HNTB
Horsley Witten Group
Howard Stein Hudson
Hoyle, Tanner &
Associates, Inc.
Jacobs
Kleinfelder
Merrimack College
Nitsch Engineering
Department of Civil
and Environmental
Engineering, Northeastern
University
Patrick Engineering
PMA Consultants, LLC
Simpson Gumpertz &
Heger Inc.
Skanska
Stantec
Tetra Tech
Tighe & Bond, Inc.
TranSystems
Tufts University –
Department of Civil and
Environmental Engineering
VHB
Wentworth Institute of
Technology
Weston & Sampson
WSP USA

Construction Cost Estimating

Douglas D. Gransberg, Ph.D., P.E., C.C.P., F.RICS, M.ASCE
President, Gransberg & Associates, Inc.

Dr. Gransberg is president of Gransberg & Associates, Inc., a construction management/project delivery consulting firm specializing in the development of project management services for complex megaprojects. Dr. Gransberg is also the president and founder of Active Continuing Education Systems, LLC., a firm that specializes in providing professional continuing education services. His prior experience includes serving as professor of construction engineering at Iowa State University and a more than 20 year career in US Army Corp of Engineers where he retired at the rank of lieutenant colonel.

June 8, 9, 10, and 12 2020

Four half-day online sessions from 8 AM to 12 PM

This ASCE continuing education seminar gives practical guidance on construction project cost estimating, cost control, and claims analysis. Hundreds of participants have saved time and money on their projects by applying the principles and techniques set forth in this dynamic seminar. In four intensive half-day webinars, you will follow the construction cost estimating process for both architectural building lump sum estimates and heavy civil unit price estimates. Information technology tools that can be used in estimating will also be discussed.

Particular attention is paid to the development of pricing data and understanding the perspective of owners, architects, engineers, bidders, contractors, subcontractors and other concerned parties with regard to quantifying the cost of a project's scope of work. Special attention is also focused on the how cost estimates are affected when a project is delivered using alternative project delivery methods such as design-build or CM-at-Risk. The seminar is lecture/discussion format and includes brief case studies that illustrate many of the seminar's key points. [Click here](#) for a more detailed seminar overview.

Registration Deadline: Friday, May 29, 2020

Registration Fees:

\$775 Members, \$660 Public Sector Members

\$270 Senior Members (65+) and Student Members, \$970 Non-Members

Information/Registration:

Register to attend this meeting and pay by credit card online at bit.ly/BSCESConstructionCost. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after May 29, 2020 and no-shows will be billed.

2019-2020
Society Sponsors
AECOM
EarthSoft
Keller
Perry Associates LLC
Shea Concrete Products



2019-2020
Program Sponsors
Alfred Benesch & Co.
CDM Smith Inc.
Dewberry
GEI Consultants, Inc.
Geocomp/GeoTesting Express
GeoSyntec Consultants
Green International
Affiliates, Inc.
GZA GeoEnvironmental, Inc.
Haley & Aldrich, Inc.
Helical Drilling
HNTB
Horsley Witten Group
Howard Stein Hudson
Hoyle, Tanner & Associates, Inc.
Jacobs
Kleinfelder
Merrimack College
Nitsch Engineering
Department of Civil and Environmental Engineering, Northeastern University
Patrick Engineering
PMA Consultants, LLC
Simpson Gumpertz & Heger Inc.
Skanska
Stantec
Tetra Tech
Tighe & Bond, Inc.
TranSystems
Tufts University – Department of Civil and Environmental Engineering
VHB
Wentworth Institute of Technology
Weston & Sampson
WSP USA

FHWA-NHI-130053

Bridge Inspection Refresher Training

Tuesday, September 29, 2020 – Thursday, October 1, 2020

AECOM, 1 Federal Street, 8th Floor, Boston, MA
Tuesday through Thursday, 8:00AM – 4:30PM

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: Tuesday, September 1, 2020

Registration Fees: \$900 Members, \$1,100 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/BridgeInspectionRefresher2020>. 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 September 1, 2020 will be billed.

2019-2020
Society Sponsors
AECOM
EarthSoft
Keller
Perry Associates LLC
Shea Concrete Products



2019-2020
Program Sponsors
Alfred Benesch & Co.
CDM Smith Inc.
Dewberry
GEI Consultants, Inc.
Geocomp/GeoTesting
Express
GeoSyntec Consultants
Green International
Affiliates, Inc.
GZA GeoEnvironmental,
Inc.
Haley & Aldrich, Inc.
Helical Drilling
HNTB
Horsley Witten Group
Howard Stein Hudson
Hoyle, Tanner &
Associates, Inc.
Jacobs
Kleinfelder
Merrimack College
Nitsch Engineering
Department of Civil
and Environmental
Engineering, Northeastern
University
Patrick Engineering
PMA Consultants, LLC
Simpson Gumpertz &
Heger Inc.
Skanska
Stantec
Tetra Tech
Tighe & Bond, Inc.
TranSystems
Tufts University –
Department of Civil and
Environmental Engineering
VHB
Wentworth Institute of
Technology
Weston & Sampson
WSP USA

FHWA-NHI-130055

Safety Inspection of In-Service Bridges

Monday, November 30, 2020 – Friday, December 11, 2020

Hilton Garden Inn Worcester, 35 Major Taylor Boulevard, Worcester, MA
Monday through Friday, 8:00 AM – 4:30 PM

This 10-day course is based on the 2015 FHWA “Bridge Inspector’s Reference Manual” (BIRM) and provides training on the safety inspection of in-service highway bridges. Satisfactory completion of this course will fulfill the training requirements of the National Bridge Inspection Standards (NBIS) for a comprehensive training course. This course is not geared towards fracture critical, underwater, or complex structures. Mid-term and final examinations based on course content will be administered to participants.

Please note: To take this course participants must show that they have passed one of the following pre-requisite courses: FHWA-NHI-130054 *Engineering Concepts for Bridge Inspectors*; FHWA-NHI-130101, *Introduction to Safety Inspection of In-Service Bridges*; or FHWA-NHI-130101a *Prerequisite Assessment for Safety Inspection of In-Service Bridges*. A FHWA/NHI certification of completion with the participant name on it will be required to be presented to BSCES preferably at time of registration or no later than Friday, September 25, 2020. Please forward your prerequisite certificate in the form of a PDF document to bsces@engineers.org.

Registration Deadline: Friday, September 25, 2020

Registration Fees: \$2,000 Members, \$2,200 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/SafetyInspectionBridges2020>. 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 September 25, 2020 will be billed.