



CT's Civil Engineering Newsletter

# May 2019

May 15, 2019

Connecticut Society of Civil Engineers  
PO Box 1101  
Deep River, CT 06417

## A Message from your 2018–2019 CSCE President

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[http://  
sections.asce.org  
/connecticut/](http://sections.asce.org/connecticut/)

A Better World By Design



This is it! The big finale! Come out and party like it is the end of the CSCE year (because it is)!

Wow, I have to say, the year went by fast. I am very grateful for the opportunity to be this past year's president. We got a lot accomplished over the past 12 months:

- Produced and distributed the [2018 Connecticut Infrastructure Report Card](#).
- Sent a large group of Younger Members and CSCE officers to the Orlando conference, where they pitched hosting a future conference in Connecticut. They were not successful but learned that usually it takes an additional proposal to seal the deal and they picked up a few pointers for next time.
- Hosted two great geotechnical professional development events this year.
- Provided testimony to the state legislature on many bills. CSCE's Legislative Affairs Committee has been extremely active this year as transportation topics moved into the political spotlight. We also had a contingent represent us at the Legislative Fly-In with ASCE in Washington D.C.
- Forged strong ties with other advocacy groups such as CCIA.

In addition to the accomplishments listed above and the upcoming ACE Awards, we have our Joint CSCE & ACEC Spring Social Event to see the Hartford Yard Goats on May 16th and the Structures Technical Group Workshop about the evaluation of bridge decks on June 14th. And, this summer brings a Younger Members Summer Brewery Social Outing (Date: TBD) and the 24th Annual CSCE/ITE/ITS Golf Outing on Friday, July 19th.

All these activities are a result of a very active and hard-working group of people on our Executive Board, Geo-Institute, Technical Groups and Committees. I can't thank them enough for their efforts. The one person who holds everything together and keeps us moving in the right direction is Amy Petrone. Amy, thank you for everything you do for us.

If you want to be a part of civil engineering in Connecticut, and have an interest in technical matters, education or advocacy, I encourage you to get involved in CSCE. A great place to start is to come to the ACE Awards at the Aqua Turf Club on Tuesday, May 21st. See you there!

Warm Regards,

David R. Chapman, P.E. M. ASCE

Connecticut Society of Civil Engineers, President 2018-2019

Younger  
Members News

**The CSCE  
Younger  
Members  
Group has its  
own Facebook  
Page.**

**Connect now!**  
[www.facebook.com/CSCEYM](http://www.facebook.com/CSCEYM)



**TAKE ANY ASCE WEBINAR**

**20% OF YOUR PURCHASE**  
WILL BE DONATED TO OUR SECTION.

**USE CODE: WEBCTSEC**

Special Offer on ASCE Webinars for Connecticut  
Section Members

Did you know that as a Connecticut Section member you get a discount on ASCE National Webinars? Plus some of the registration fee comes back to help fund other Section activities!

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**THANK YOU**  
**to our**  
**Sponsors!!**

## ***GET INVOLVED IN CSCE!!***

Do you want to be more involved in CSCE?

Are you interested in being a committee member or serving on the CSCE Executive Board?

We are looking for people like you!

Contact our 2018-2019 President David Chapman at  
President-2017@csce.org to find out how you can get more involved.

Together we can make

“A Better World by Design”!!

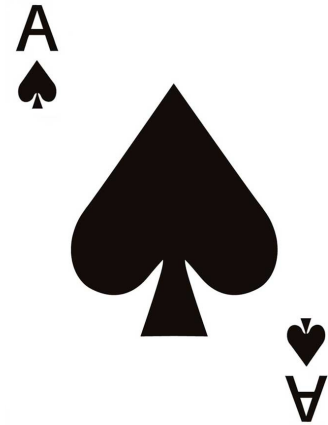
Any and all involvement is WELCOME!!



“I would like to thank everyone at CSCE who works hard to improve our profession. If you enjoy the civil engineering profession, get involved in CSCE committees and activities. You will meet great people, learn a lot and have a good time.”

—David R. Chapman, P.E. M. ASCE  
Connecticut Society of Civil Engineers, President 2018-2019

## UPCOMING CSCE EVENTS 2019 -



**May 21 (Tuesday)** - 12th Annual Achievement in Civil Engineering (ACE) Awards. These Awards will commend projects on which significant engineering expertise or innovation was exhibited and distinguish these projects, and thereby honor the overall contributions of numerous engineers and other team members. The ACE Awards will be held at the Aqua Turf Club in Plantsville, CT. Please [register here](#).



## UPCOMING CSCE EVENTS 2019 (cont.) -

### **June 14 (Friday) - 9:00 a.m.—1:00 p.m.**—CSCE Structures Technical Group Workshop

**Topic:** Improved Bridge Management through Innovative Ways in Condition Assessment of Concrete Bridge Decks: Data Collection Using Robotics and Advanced Data Interpretation

**Location:** Connecticut Department of Transportation, 2800 Berlin Turnpike, Newington, CT 06111

**Speaker:** Professor Nenad Gucunski of Rutgers University.

Nondestructive evaluation (NDE) technologies open opportunities for more comprehensive and accurate assessment of bridge decks. In addition, the speed of NDE data collection, one of the main causes of still limited use of NDE technologies in bridge deck assessment, is being resolved through the development of new systems. One of them is a fully automated (robotic) system named RABIT (Robotics Assisted Bridge Inspection Tool) that was developed with the support from Federal Highway Administration (FHWA).

The system concentrates on the characterization of internal deterioration and damage, in particular three most common deterioration types in concrete bridge decks: rebar corrosion, delamination, and concrete degradation. RABIT implements four NDE technologies: electrical resistivity (ER), impact echo (IE), ultrasonic surface waves (USW) and ground-penetrating radar (GPR). The ER Wenner probes enable characterization of the concrete's corrosive environment, while IE enables detection and characterization of delamination in the deck. The USW test concentrates on the assessment of concrete quality by measuring the concrete elastic modulus. Finally, GPR provides a qualitative assessment of concrete deck deterioration, mapping of re-bars and measurement of concrete cover. RABIT utilizes multiple probes or sensor arrays for the four NDE technologies, which significantly improve the data collection speed and spatial resolution of the results. The NDE technologies are used in a complementary way to enhance the overall condition assessment and certainty regarding the detected deterioration. In addition, the system utilizes high resolution cameras to image the surface of the deck for crack mapping and documentation of previous repairs.

This workshop will provide in depth discussion of NDE technologies commonly used in concrete bridge deck inspection, benefits stemming from application and from periodical NDE surveys, NDE data collection using the RABIT robotic system, and innovative ways of data interpretation and visualization.

Additional information about this topic can be found at the link below:

<https://www.fhwa.dot.gov/publications/research/infrastructure/structures/ltbp/13035/index.cfm>

**CSCE has launched a brand new CSCE website:**

**<http://sections.asce.org/connecticut/>**

**We have updated and modernized the look and layout of section's website. Let us know how you like it.**

### **For Members 35 Years or Younger**

#### **CSCE Younger Members Committee**

The CSCE Younger Members Committee encourages the full professional development of engineers who are 35 years of age or younger and endeavors to increase their participation in CSCE and ASCE activities. Please contact Jodi Greene, Younger Members Committee Chair, at [youngermembers-2017@csce.org](mailto:youngermembers-2017@csce.org) or the CSCE— Younger Members Facebook page for more information about the activities of this Committee.

**Younger Members on Facebook** visit our Facebook page to stay updated with past and upcoming Younger Member social and professional events. Search for CSCE Younger Members or follow the link <https://www.facebook.com/CSCEYM> and like the group.



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## *2019 Student Award Nominations*

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Every year, CSCE recognizes outstanding civil engineering students in ASCE Student Chapters in Connecticut, as well as high school students pursuing interest in the civil engineering field.

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The Student Awards recognize the following individuals for their exemplary commitment to the betterment of the civil engineering field and their communities:

Jamie Bannon — Outstanding Civil Engineering Student Award

Rachel Gelfand — CSCE Civil Engineering/Construction Scholarship

Owen Gibson — Student Scholarship Award

Jared Hendrickson — Outstanding Civil Engineering Student Award

Brian Maloney — Student Scholarship Award

Celia Marzinsky — Outstanding Civil Engineering Student Award

James McCoy — CSCE Civil Engineering/Construction Scholarship

Denise Prussen — Outstanding Civil Engineering Student Award

Lauren Romeo — Outstanding Civil Engineering Student Award

Andrew Sarza — Outstanding Civil Engineering Student Award

Jennifer Ventura — Outstanding Civil Engineering Student Award

Debbie Vergara — Outstanding Civil Engineering Student Award

Chandra White — Student Scholarship Award

**EMPLOYMENT  
INFORMATION (see  
classifieds)**

ASCE Career  
Connections:

[http://careers.asce.org/  
search.cfm](http://careers.asce.org/search.cfm)

Unemployed? ASCE  
National has a program  
to waive dues of  
unemployed members.  
For more information,  
please contact Patrick  
Ballou directly at the  
following address:

Patrick Ballou,  
Membership Coordinator

American Society of Civil  
Engineers

1801 Alexander Bell Drive

Reston, VA 20191-4400

Toll free: 1-800-548-ASCE

Direct: 703-295-6169

Fax: 703-295-6335

**Younger Members Committee Events**

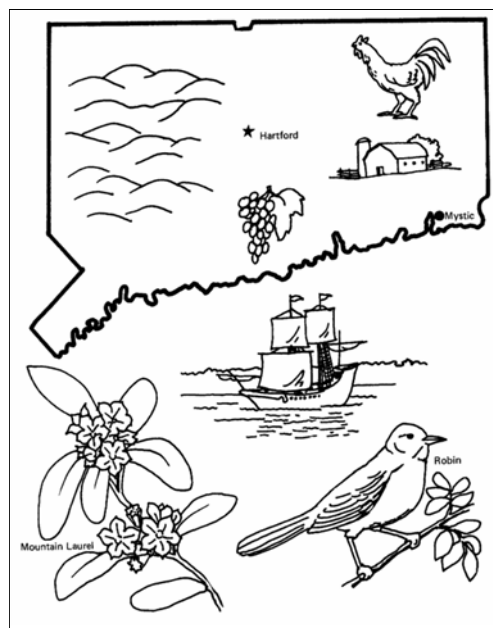
The CT Younger Members hosted a brewery social event at Alvarium Beer Company in New Britain, CT on February 28th. We had a great turnout this year, with almost 30 individuals attending the social. This gathering was a collaboration of younger members from CSCE, EPOC, AWWA, CTGBC, ASLA, AIA, WEF, and students from Connecticut universities. Thank you to all of our sponsors helping this event take place! Everyone seemed to have a great time and enjoyed some friendly networking after work at a fun venue. We will be sure to continue the tradition next year, so please join us then for some great beer and conversations.

Check out the website for the brewery's [list of beers](#), and they also have pretzels, kielbasa, and snacks.



If you have any ideas or would like to request an event at your College/University, please contact the Younger Members Committee President, Jodi Greene.

Check out the Younger Members Committee Facebook page at <https://www.facebook.com/CSCEYM> for other upcoming events.



CSCE is soliciting pictures and projects of your favorite Civil Engineering landmarks in CT. The goal is to broadcast the civil engineering projects in Connecticut to our readers. If you have pictures of bridges, buildings, deep cuts, high embankments, monstrous retaining walls, even miniature construction sites, etc. (be creative!) send us a brief description and photograph and we will include it in the next CSCE newsletter. Please send all the information to:

[nl-editor-2017@csce.org](mailto:nl-editor-2017@csce.org)



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## Are you a recent college graduate. Or about to be? Do you know someone who is? Stay with ASCE!!

Did you know that ASCE offers pro-rated discounted membership dues for recent college graduates? For more information visit <http://www.asce.org/membership>

### Are you a “Younger Member”?

A Younger Member is considered to be 35 years of age or younger. The Younger Member Committee fosters the professional growth, ethical awareness, and technical competence of the Section’s younger members. The Committee meets once a month, and organizes several activities throughout the year, including those for fun and community service. Check future issues of this newsletter for upcoming events. If you are interested in joining the committee or want more information, contact [youngermembers-2017@csce.org](mailto:youngermembers-2017@csce.org).



## HONORS AND AWARDS

ASCE’s Honors and Awards program recognizes the remarkable accomplishments of the civil engineering profession. With more than 80 awards, the program distinguishes the unique contributions engineers make to both the industry and society.

ASCE has many honors and awards to recognize deserving members. For a complete listing of all ASCE awards, please visit [www.asce.org/awards](http://www.asce.org/awards).

## **YOUR AD CAN GO HERE!**

**Get your job posting, message, or advertisement included  
within one or multiple CSCE Newsletters.**

**For rates and availability: <http://sections.asce.org/connecticut/resources>**

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***The Connecticut Society of Civil Engineers was formed in 1884. Separately, the Connecticut Section of the American Society of Civil Engineers (ASCE) was founded in 1919. The two organizations merged in 1981. We represent about 1,600 civil engineers statewide.***

## **2018 – 2019 CSCE Executive Board**

### *President*

**David Chapman, P.E.**  
Sr. Vice President  
Blackeslee Arpaia Chapman  
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### *President –Elect*

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### *ASCE Region 1 Society Director*

**Anthony Cioffi, P.E., M.ASCE**  
tcioffi@citytech.cuny.edu

### *ASCE Region 1 Governor*

**Danielle H. Spicer, P.E.**  
dspicer@greenintl.com

## *Committee Chairs*

### *Career Guidance*

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vicepresident-2017@csce.org

### *Continuing Education*

#### **Open**

### *Government Engineers*

#### **Rabih Barakat, P.E.**

CT Dept. of Transportation  
2800 Berlin Turnpike  
Newington, CT 06131  
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860-594-3389 Office  
860-594-3373 Fax  
203-397-2996 Home

### *Legislative Affairs*

#### **Roy Merritt, P.E.**

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rmerritt@hwlochner.com  
203-752-1937 Fax

### *History & Heritage*

#### **Randall T. States, P.E.**

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rtstates@yahoo.com  
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### *ASCE LTC*

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Mobile: (860) 209-8181  
Fax: (860) 525-5013

### *Scholarship Fund*

#### **Jim Sime, P.E.**

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james.sime@skiltions.org

### *Younger Members*

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WSP USA  
500 Winding Brook  
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youngermembers-  
2017@csce.org

### *Website*

#### **Open**

### *Programs*

#### **Jeff Benoit, P.E.**

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jeffbenoit@earthlink.net

## *Technical Group Chairs*

### *Water Resources*

#### **Tom Loto, P.E.**

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tloto@kleinfelder.com

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860-830-1418 Cell

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## *Institutes*

### *Connecticut Valley Geo-Institute*

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BCote@geopier.com

## ***EMPLOYMENT CLASSIFIEDS***



### **TPA Design Group – Civil Engineer (5-Years+ Experience)**

**Job Posted: May 9, 2019**

TPA Design Group is a multi-disciplinary consulting firm with over 70 years of experience in providing site planning, engineering, and landscape architecture services to clients throughout Connecticut and New England.

We are seeking a Connecticut-licensed PE with at least five (5) years of practical experience including hydrology, storm drainage and sanitary sewer design, utility layout, site and roadway layout, grading and erosion control. Candidates with EIT status and seeking PE certification may also be considered.

The ideal candidate will demonstrate competency with basic professional skills including ability to communicate verbally and in writing with colleagues, allied disciplines, clients, and the public. Proficiency with AutoCAD Civil 3D and Hydrologic/Hydraulic modeling software is required. Candidates should have prior experience and good working knowledge of local, state, and federal permit processes including presentations before municipal and/or regulatory review boards. Salaries and benefits are open and will be negotiated based upon applicant's experience. This position is full-time for forty (40) hours and includes health, dental, and other benefits. TPA Design Group is an Equal Opportunity Employer. Please send a cover letter and resume in confidence to: TPA Design Group, 85 Willow Street, New Haven, CT 06511. For more information, please contact David Sacco, P.E. – [dsacco@tpadesigngroup.com](mailto:dsacco@tpadesigngroup.com)



### **Connecticut Department of Public Health (CTDPH) – Entry-Level Engineer (Drinking Water Section)**

**Job Posted: May 9, 2019**

The CT Department of Public Health is accepting applications for **two (2)** full-time entry-level engineering positions in the Drinking Water Section (DWS). To view the job postings, visit the CT Dept. of Administrative Services State Jobs webpage: <https://www.jobapscloud.com/CT/sup/bulpreview.asp?R1=190415&R2=3389ES&R3=001>.

Applications will be accepted until **May 20, 2019**. For more information about the DWS, visit: [www.ct.gov/dph/publicdrinkingwater](http://www.ct.gov/dph/publicdrinkingwater).

## ***EMPLOYMENT CLASSIFIEDS***



**DOWN TO EARTH  
CONSULTING, LLC**  
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

### **Down To Earth Consulting, LLC – Staff Engineer/Geologist**

**Job Posted: May 9, 2019**

Down To Earth Consulting is seeking a Staff Engineer/Geologist to join our geotechnical engineering group in Naugatuck, Connecticut. The successful candidate should have a Bachelor of Science degree in geology or engineering; 0 to 5 years of experience; any work or schooling focused on geotechnical engineering is a plus. Down To Earth Consulting is an Affirmative Action/Equal Opportunity Employer. To learn more about this opportunity, please submit your resume to [ray@downtoearthconsulting.com](mailto:ray@downtoearthconsulting.com).



**Nathan L. Jacobson & Associates**  
Consulting Civil and Environmental Engineers Since 1972

### **Nathan L. Jacobson & Associates – Project Engineer**

**Job Posted: May 9, 2019**

Established Civil and Environmental Engineering firm seeking highly motivated technical personnel with excellent communication skills for a full-time Project Engineer position. Minimum BS degree and 1-4 years' experience in general municipal engineering and infrastructure improvement projects. AutoCAD Civil 3D experience required. An Equal Opportunity Employer. For more information and to apply, visit our website; [www.nlja.com](http://www.nlja.com).

### **Nathan L. Jacobson & Associates – Engineering Technician/Inspector**

**Job Posted: May 9, 2019**

Established Civil and Environmental Engineering firm seeking highly motivated technical personnel with excellent communication skills for full-time Engineering Technician/Inspector position. Experience in civil, bridge or roadway construction inspection. AS degree desired, and Microsoft Word/Excel experience required. NICET or NETTCP certifications, and AutoCAD Civil 3D experience desirable. For more information and to apply, visit our website; [www.nlja.com](http://www.nlja.com).

## ***EMPLOYMENT CLASSIFIEDS***



### **Siefert Associates, LLC - Senior Project Engineer**

**Job Posted: March 6, 2019**

Siefert Associates, LLC is seeking a Structural Engineer for a highly responsible Senior Project Engineer Position. Senior Project Engineer will serve in a lead technical role on bridge design projects & perform complex structural analysis & design for all structural aspects of highway & rail bridge projects. Responsible for the Project Management of large-scale multifaceted engineering projects, often on advanced deadlines, and will be responsible for the primary Supervision of mid-level engineers. Design Build Experience. 10+ year experiences, MS preferred.

### **Siefert Associates, LLC - Structural Project Engineer**

**Job Posted: March 6, 2019**

Siefert Associates, LLC is seeking a Structural Project Engineer with 5-10 yrs experience in Construction Engineering. Will prepare calcs, design drawings, perform site visits, review lower level engineers' work, manage jobs, communicate with clients, attend client events. Project types include design of temporary support structures, construction loading on structures, engineered lift plans, demolition/erection plans, rigging design and crane layout plans.



### **CME Associates - Various Engineering Positions**

**Job Posted: March 1, 2019**

CME Associates is growing! We have openings for Sr Civil Engineers, Sr Bridge Engineers and Sr Project Managers in our CT, NH or our new RI office. CME is a place where the brightest minds come together to develop solutions to the challenging projects of today and to help cultivate better places to live, work and grow. We strive to make CME a place where employees can develop their careers and grow professionally. Please visit: <https://cmeengineering.applicantpro.com/jobs/>

## ***EMPLOYMENT CLASSIFIEDS***



### **Pereira Engineering, LLC – Shelton Office – Survey Technician**

#### **Job Posted: February 5, 2019— Survey Technician, 5+ Years Experience**

Pereira Engineering is an established Civil/Environmental/Land Surveying firm located in Shelton, CT. PE is seeking an experienced Survey Technician with a minimum of five (5) years experience in all facets of land surveying from boundary surveying to construction layout. Duties include field surveying, downloading/uploading survey data, land record research, and AutoCAD drafting. PE offers a very competitive salary and benefits. Please email resume to: [joe.pereira@pereiraeng.com](mailto:joe.pereira@pereiraeng.com)

## **LANGAN**

### **Langan– New Haven Office – Civil Engineer**

#### **Job Posted: January 07, 2019 – Entry Level (31864)**

Entry Level Engineer: 0-2 years of experience. The successful candidate will possess interest in working on & learning about site/civil land development design gaining experience designing commercial, residential, mixed-use, & industrial properties.

Apply at: [www.langan.com/careers](http://www.langan.com/careers)



### **WSP – New Haven and Norwalk Offices – Project Engineer**

#### **Job Posted: November 02, 2018 – Walk Bridge Program Management Team**

Engineer II: 3-5 years of experience in any of civil/track/structures/rail/construction

Lead Engineer: 7+ years of experience in any of civil/track/structures/rail/construction

Supervising Engineer: 15+ years of experience in any of civil/track/structures/rail/construction

See <https://www.wsp.com/en-GL/careers/join-our-team> for detail

### **WSP – Glastonbury, New Haven and Norwalk Offices – Project Controls Specialist**

#### **Job Posted: November 02, 2018 – Walk Bridge Program Management Team**

Project Controls Assistant: 1-3 years of experience in document control/estimating/scheduling

Senior Scheduler: 5+ years of experience in scheduling/Primavera P6/Construction

Senior Project Controls Lead: 7+ years of experience in document control/estimating/scheduling

See <https://www.wsp.com/en-GL/careers/join-our-team> for detail