

Connecticut Society of Civil Engineers February Newsletter

From the President

Dear CSCE Members,

I hope everyone is staying safe and enjoying the random bits of spring weather we have been having this February!

We held this month's meeting virtually on February 16th, which was sponsored by CSCE's Legislative Affairs Committee. Mark Rolfe, P.E., Deputy Commissioner at CTDOT, gave a presentation on "Federal Infrastructure Investment and Jobs Act: Impacts on Connecticut's Transportation Systems". This meeting had our highest turnout yet for a virtual meeting with over 160 people in attendance!

On March 1, CSCE will be joining forces with WTS to host a webinar in honor of Women's History Month. Stephanie Slocum, structural engineer, author and business owner, will be doing a presentation called "Breakthrough Conversations: the Self-Advocacy Secret Weapon for Women at Work". We are excited to have Stephanie for this different but very important topic!

This does not replace our March monthly meeting, which will be held on March 22nd at the Norwalk Inn. The presentation will be by Charles Neth from Siefert Associates on the Henry Hudson Bridge. This will be our first in person meeting since the pandemic began, and we are very much looking forward to seeing some familiar faces!

Sincerely,

Brianna Ritacco, P.E., M. ASCE

Upcoming Events

2022

March 1 - Joint CSCE/WTS Women in Engineering Virtual Meeting

- Presentation Topic: Breakthrough Conversations: the Self-Advocacy Secret Weapon for Women at Work
- Speaker: Stephanie Slocum, P.E., Engineers Rising, LLC
- No PDHs will be offered at this meeting
- Click Here to register for this event

March 2-4 ASCE Legislative Fly-In (Virtual and In-Person)

March 15 - Deadline for Student awards

March 22 - Dinner Meeting at the Norwalk Inn, Norwalk, CT

- Topic/Speaker: Henry Hudson Bridge Manhattan Approach Rehabilitation/Siefert Associates
- Sponsor: Fairfield County Branch of CSCE
- Earn 1 NYS PDH at this meeting
- Click <u>Here</u> to Register for this Event

March 31 - Deadline for ACE Award projects, firm and engineer nominations

April 13 - Dinner Meeting at the USCGA Officers Club

- Topic/Speaker: TBD
- Co-Sponsors: CSCE Government Engineers Committee and the ASCE Student Chapter at the USCGA

April TBD - Annual Spring Geotechnical Workshop

• Earn NYS PDH at this meeting

May 10 - Virtual Lunch Meeting - Time: 12-1:30 p.m.

- Topic: Implementing Digital Twins for Design Review
- Speakers: Kevin O'Connor, P.E., and Josh Manns, P.E., Parsons
- Sponsor: CT Chapter of the ASCE Transportation & Development Institute
- Earn 1 NYS PDH at this meeting
- Click Here to Register for this Event

May 26 - Annual Achievement in Civil Engineering (ACE) Awards, The Aqua Turf Club, Plantsville, CT

June 10-12 East Region Young Member Council Conference

• Hosted By CSCE in Hartford

June TBD - Structural Seminar (Working topic: Structural Issues, Challenges and Failures)

• Earn NYS PDHs at this event



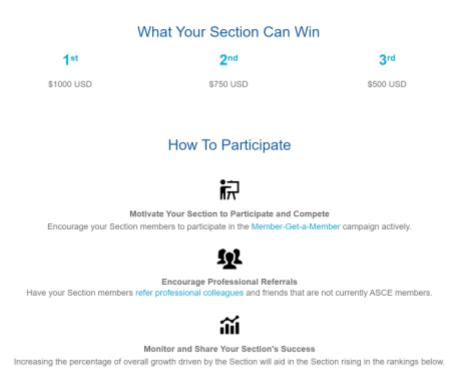


ASCE Section Membership Drive

The Section Member Drive is back, and here is your chance to win!

Here is how the contest works:

- Each Section will compete based on the percentage of growth driven by that Section's participating members.
- The information below provides you and your team with crucial program details, valuable resources to be successful in your referral efforts, and the ability to monitor your current ranking.



Visit American Society of Civil Engineers (asce.org) for more information about the Competition

ASCE Structure Congress 2022



1 -

 Join us at Structures Congress 2022 in Atlanta! There's something for everyone from our keynote speakers, six specials essions, and a robust technical program. Register and learn more today.

https://www.structurescongress.org/

2022 Student Scholarship Awards



2022 Student Scholarship Applications for <u>Incoming Freshmen</u> **and** <u>Juniors/Seniors</u>

Funding Request for ASCE Student Chapter at Quinnipiac University

The American Society of Civil Engineers (ASCE) Student Chapter at Quinnipiac University is planning a site visit for its members on March 29th, 2022, to an active tunneling project located on Long Island, New York. Normally, the Student Chapter is invited on the MOLES trips that occur every year. However, due to the COVID-19 epidemic, the Student Chapter has not had the opportunity to see any large scale engineering projects up close.

In December 2021, the Student Chapter was approached by a local engineer about a possible site visit on the condition that participating members complete their OSHA 10 training. However, this suggestion was made after the Student Chapter had submitted its spring budget to the Quinnipiac University Student Government Association. The Student Government does not allow student organizations to use funds for reasons not listed on their submitted budgets and this me ans that the cost of these certifications for the trip will fall squarely on the shoulders of the participating students. The Student Chapter believes this may lower the number of possible attendees for this great learning experience.

At this time, the ASCE Student Chapter at Quinnipiac University is looking to raise \$1,200 by March 1st to cover the costs for students to complete this OSHA 10 training and attend this site visit. The Student

Chapter would like the students to obtain the OSHA 10 certification in the beginning of March so they are ready for the field trip on March 29th. If you or your firm would be interested in helping out this Student Chapter, here are the 2 ways to make a donation:

1) Online gifts can be made following this link:

https://securelb.imodules.com/s/1656/giving/interior.aspx?sid=1656&gid=2&pgid=509&cid=1244

Please select the "Other" Designation checkbox, and in the text box below it, specify, "the Engineering Dean's Discretionary Fund for use by the ASCE Club"

2) Donation by check made out to Quinnipiac University

A note included with the check should specify the funds are to support, "the Engineering Dean's Discretionary Fund for use by the ASCE Club"

Checks should be mailed to the address below:

Maura Cox, MBA '21

Administrative Assistant/Bookkeeper

Office of Development and Alumni Affairs

Quinnipiac University

275 Mt. Carmel Avenue

Mail Stop: AH-DVP

Hamden, CT 06518

Thank you in advance for your support. Any funds collected over the \$1,200 will be put towards future field trips. The Student Chapter tries to go on 1-2 engineering-related field trips per year.



ASCE National Awards



ASCE National Awards (due March 1, 2022):

Civil Engineering Entrepreneur of the Year Award

This award was established by the ASCE Committee on Developing Leaders to recognize entrepreneurs who create successful private-sector organizations that employ civil engineers and/or expand the civil engineering horizon.

Government Civil Engineer of the Year Award

This award was established by the Government Engineers Division to recognize distinguished civil engineers employed in public service for significant engineering contributions as a practitioner in public service.

Edmund Friedman Professional Recognition Award

This award was established to recognize the importance of professional attainment in the advancement of the science and profession of engineering, as defined by the Constitution of the Society.

Outstanding Public Official Award

This award was established to recognize those members of the engineering profession who have rendered meritorious service in elective or appointive positions in government.

Parcel-Sverdrup Civil Engineering Management Award

The John I. Parcel-Leif J. Sverdrup Civil Engineering Management Award recognizes effective leadership and management skills in the civil engineering profession.

2022 ACE Awards

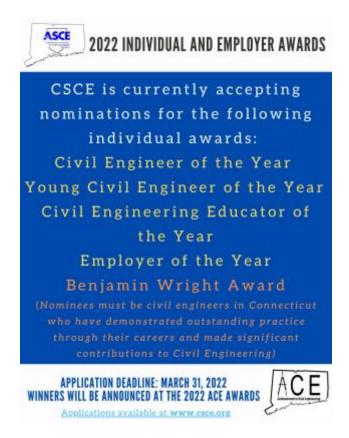


CSCE would like to honor the design and construction achievements of Connecticut Civil Engineers through its Achievement in Civil Engineering (ACE) Awards. As such, CSCE invites engineering firms to nominate projects that were planned, designed, or constructed substantially between January 1, 2021, and December 31, 2021, in Connecticut. The Awards will commend projects in which significant engineering expertise or innovation was exhibited by Connecticut Engineers and especially CSCE members.

APPLICATION DEADLINE: MARCH 31, 2022

Applications available at www.csce.org





Nomination form are available now see <u>Awards | Connecticut Society of Civil Engineers Section</u> (<u>asce.org</u>) for the latest updates

Project Spotlight

Rehabilitation of the Sunnyside Street Bridge over the Yantic River

CSCE's 2021 ACE Award for Excellence in Historic Preservation was the Rehabilitation of Sunnyside St. bridge over the Yantic River In Norwich, Connecticut. Constructed in 1908, the Sunnyside Street Bridge over the Yantic River is the sole access to approximately 20 homes in the City of Norwich's Yantic neighborhood. Originally the entrance drive to Rockclyffe —a mansion built by Erastus Winslow Williams—the bridge shares its neo-Tudor architectural style and common granite material with the Yantic Woolen Mill (circa 1868), the Yantic Fire Engine Company, and the local Episcopal church. Together, the structures create a "cohesive village setting." Travelled upon by President William Howard Taft in 1909 during his visit marking the City's 250th anniversary, the bridge is included in the Connecticut Historic Bridge Inventory and is eligible for listing on the National Register of Historic Places.

The bridge consists of two natural stone arch spans with stone masonry spandrel walls. The western span (Span 1) has a length of approximately 71 feet and carries Sunnyside Street over the main channel of the Yantic River. The eastern span (Span 2) has a length of approximately 35.5 feet and carries

Sunnyside Street over an overflow channel of the Yantic River. The bridge's parapet features a pair of semi-circular alcoves with integrated masonry slab benches located at the midpoint. The western approach is flanked by engaged pillars and guard turrets. Prior to construction, the turrets had wood and thatched roofs capped by a conical copper finial.

In 2012, Alfred Benesch & Company was hired by the City of Norwich to initiate a rehabilitation study for the structure. The inspection revealed cracks and deterioration in the stone masonry's mortar joints; parapets and retaining walls that were tilted outward; capstones, which had shifted and were misaligned. Active water leakage was noted in multiple areas, along with evidence of scour, embankment erosion, and vegetation growing through walls. These results prompted the City to secure funding to restore the historic structure through the State of Connecticut's Federal Local Bridge Program. The project aimed to restore the integrity and safety of the Sunnyside Street Bridge, while preserving its beauty and historic character. Equally important was maintaining traffic and emergency services during construction to the 20 households in the Yantic neighborhood.

Understanding the client's desire to restore the bridge's integrity and safety, while preserving its beauty and historic character, Benesch worked with the City and Connecticut Department of Transportation (CTDOT) to secure federal "preservation" funding, allowing the project to incorporate several historic enhancements. Existing parapet walls were dismantled, reset, and mortared together with an exposed beaded joint; original stone was cut and re-purposed as veneer on the new, reinforced-concrete retaining wall; thatched turret roofing was replaced with slate—the original construction material; precast concrete deck panels, covered with waterproofing membrane, were installed to address water leakage issues; a decorative, stamped-concrete surface was used to replace the deteriorated, bituminous sidewalk; and an unsightly utility pole was removed from the sidewalk and replaced with a decorative lighting fixture.

Maintaining traffic during construction was of paramount importance as the bridge is the only access point to 20 households, Benesch coordinated with the City, Norwich Emergency Services, and the community to develop a Maintenance and Protection of Traffic plan. The plan limited roadway closure to specified hours stationed emergency services personnel on the Yantic side of the river during closure windows to ensure the safety of the community.

The project successfully achieved the City's goals of restoring the integrity and safety of the Sunnyside Street Bridge, while preserving its beauty and historic character. As a result, we received positive feedback and compliments not only from our client, the City of Norwich, but from CTDOT District 2 (MSAT), Mattern Construction, and residents of the Yantic neighborhood.









Brain Teaser Corner



There is a barrel with no lid and some wine in it. "This barrel of wine is more than half full," says the woman. "No, it's not," says the man. "It's less than half full." Without any measuring implements and without removing any wine from the barrel, how can they easily determine who is correct?

Previous Months Answer: "Which direction do you live?" Someone from the City of Lies will lie and point to the City of Truth; someone from the City of Truth would tell the truth and also point to the City of Truth.

Solution to be shown in subsequent newsletter. Want to stump your colleagues? If the answer to this question is Yes, please submit your Brain Teaser (and solution) to the Newsletter editor at tparker@hwlochner.com

Employment Opportunities



Careerbuilder - US - Civil Engineer in Orange, CT

Job posted on <u>www.csce.org</u> and in the CSCE newsletters on February 22, 2022

Raymond Search Group - Civil Project Engineer / Manager in New Haven, CT

Job posted on www.csce.org and in the CSCE newsletters on February 22, 2022

Vanasse Hangen Brustlin - Site / Civil Engineer in Wethersfield, CT

Burns & McDonnell - Staff Civil / Structural Engineer - Transmission) in Wallingford, CT

Job posted on www.csce.org and in the CSCE newsletters on February 22, 2022



- GeoDesign
- Project Geotech Engineers
- Job Posted: February 4, 2022

GEODesign has an immediate opening in Connecticut for a project-level geotechnical engineer to provide geotechnical services on design and construction projects in New England and Metro New York areas.

GEODesign is a premier geotechnical specialty engineering consulting firm headquartered in Middlebury, Connecticut, with offices in NJ, VT, NY and OR. We are a regional industry leader providing services in the fields of geotechnical, environmental, forensic, and construction engineering. This position offers an excellent opportunity to work on a wide variety of projects such as highways & bridges, buildings, water front structures, land development, forensic engineering, dam engineering, and environmental remediation. GEODesign offers great growth potential and learning opportunities to those aspiring professionals by working closely with our highly competent, seasoned engineers recognized in the field. For more information/to apply, please vis it https://geocompanies.com/ or email resume to mdu@geocompanies.com.



- University of New Haven
- Lecturer & Assistant Professor positions
- Job Posted: December 21, 2021

The Department of Civil and Environmental Engineering at the University of New Haven invites applications for 1) a full time Lecturer in Construction Management and 2) a Tenure-track Assistant Professor (or a Non-tenure track Lecturer) in Environmental Engineering with primary expertise in water treatment, solid waste management or climate change/air pollution. The positions will commence in Spring 2022 or Fall 2022. Review of applications will start immediately and continue until the position is filled. Apply at:

- 1) http://apply.interfolio.com/96130 Full-time Lecturer in Construction Management. The successful candidate must have a minimum of MS degree and extensive professional experience in Construction Management/Engineering.
- 2) http://apply.interfolio.com/96125 Tenure Track Assistant Professor in Environmental Engineering. Exceptional candidates with prior teaching experience and a strong record of scholars hip may be considered for an associate Professor appointment.



- Siefert Associates, LLC
- Structural Project Manager
- Job Posted: December 21, 2021

Siefert Associates, LLC., is a Structural-Geotechnical Engineering firm practicing in the niche field of Construction Engineering. We are the professional service firm of choice for contractors across the Northeast and are proud to call 10 of the top 15 Domestic Heavy Contractors [per ENR] as our Clients. Our specialty is developing working drawings and calculations for heavy highway, building, railroad, & utility projects. Our work includes temporary & permanent design, inspection, & field services.

We seek a Structural Project Manager for responsibilities that include the management & preparation of calculations for complex projects, business development, proposal writing, & training/mentoring of production staff. BS or MS in Civil Engineering, PE license in NY/CT, & 10 years of design experience in construction engineering preferred. Located in Naugatuck, CT office with hybrid work options.

Apply at: <u>www.siefertassociates.com</u> – email cover letter & resume to <u>info@siefertassociates.com</u>



- Nathan L. Jacobson & Associates
- Chief Inspector
- Job Posted: November 23, 2021

Established Civil and Environmental Engineering firm seeking highly motivated technical personnel with excellent communication skills for a Construction Chief Inspector position. Experience in bridge and roadway construction inspection, testing and CTDOT four volumes. Minimum AS degree in CE or CE

Technology desired, and; Microsoft Word, Excel and Outlook experience required. NICET 3 certification or PE required. For more information and to apply, visit our website; www.nlja.com.



- Luchs Consulting Engineers, LLC
- Chief Inspector, Office Engineer, Senior Inspector, and Inspector positions
- Job Posted: October 18, 2021

Luchs Consulting Engineers, LLC, a Meriden based Consulting Engineering firm is seeking candidates for a Chief Inspector, Office Engineer, Senior Inspector and Inspector positions. Experience with State of Connecticut and Municipal Construction Inspection procedures is required. Current NICET, NETTCP, ACI, ATSSA and NACE Certifications are a plus.

Competitive Benefit Package

Email: dcrandall@luchs.com

An Affirmative Action Employer (EOE)

http://www.luchs.com/



- Luchs Consulting Engineers, LLC
- Civil Design Engineer
- Job Posted: October 18, 2021

Luchs Consulting Engineers is a multi-disciplined engineering, surveying firm based in Meriden, CT. We have immediate opportunities for professionals who are ready to join our dynamic team.

Civil Design Engineer BS Degree in Civil Engineering; EIT or NICET a plus

- 3-7 years' experience in CTDOT design environment
- Roadway Drainage Design/HEC-RAS Hydraulic experience required
- Knowledge of MicroStation or AutoCAD required

Comprehensive Benefit Package

Please email resumes to: dcrandall@luchs.com

http://www.luchs.com/



Structural Engineering Geotechnical Engineering Historic Preservation

- GNCB
- Sr. Geotech Engineer
- Job Posted: July 22, 2021

GNCB seeks Sr. Geotech Engineer to serve as Project Manager. Responsibilities: Manage projects including all aspects of field & lab investigations, project design, & construction administration; prepare budgets, proposals, reports & contracts; build and maintain Client Relationships. Minimum Quals: B.S. or M.S. in Civil Engineering with geotech concentration; P.E. in Connecticut; 8 to 12 years' experience showing proficiency in job responsibilities & knowledge of local subsurface conditions.

http://www.gncbengineers.com/



- Hardesty & Hanover
- Civil Engineers
- Job Posted: June 22, 2021

Hardesty & Hanover is currently seeking engineers to join our expanding civil engineering design group in New England. Our New Haven office seeks experienced Civil Engineers with expertise in roadway, drainage, traffic, and highway safety design. Applicants should be able to perform design tasks, lead small groups, communicate effectively, and collaborate to meet objectives. Our firm offers a close-knit employee-based culture and opportunities for professional growth and leadership. Please visit https://www.hardestyhanover.com/current-openings/ for further details.



- Conlon Engineering, LLC
- Structural Engineer
- Job Posted: June 21, 2021

Conlon Engineering, a growing structural design firm in Brookfield, CT is seeking a structural engineer with 0-3 years of experience doing design work and calculations. We are looking for a smart, hardworking engineer who wants to be part of a profitable firm that is set up for sustainable growth. Visit our website at conlonengineering.com and email resumes to office@conlonengineering.com



- Down To Earth Consulting, LLC
- Geotechnical Senior Project Engineer
- Job Posted: June 21, 2021

Down To Earth Consulting is seeking a Senior Project Engineer to join our geotechnical group in Naugatuck, CT. The successful candidate should have a BS degree from an ABET accredited civil engineering program, 5 to 10 years of experience, and be a licensed PE. 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.

https://downtoearthconsulting.com/



2 - https://www.facebook.com/PereiraEng/

- Pereira Engineering
- Civil Engineer, Land Surveyors & Survey Technicians
- Job Posted: June 21, 2021

Pereira Engineering is an established Civil/Environmental/Land Surveying firm located in Shelton, CT. PE is seeking a Civil Engineer as well as Land Surveyors and Survey Technicians (at all levels of experience) to expand our Survey Department. PE offers a very competitive salary and benefits. Please email resume to: joe.pereira@pereiraeng.com

Memberships

ASCE and CSCE Membership

ASCE members come from all disciplines of civil engineering, from all types of environments, and from all over the world. With benefits geared to meet the high standards of professionalism, ASCE strives to cater to each member's needs.

Membership in CSCE is granted to ASCE members upon receipt of Connecticut Section dues. Connecticut Section dues are \$30 per year. Please include your section dues with your national membership renewal. We can accept mid-year memberships. Please contact our Membership Committee Chair Rich Cohen at rechen@hwlochner.com for more information about CSCE and ASCE. To join the Connecticut section of ASCE, please go to the ASCE website (www.asce.org) and click on Join at the top of the page.

Why join CSCE? Please click <u>here</u> for our PowerPoint Presentation from a Professional Issues Seminar on Tuesday, April 8, 2008 about the Advantages to Joining Professional Associations

Transferring Section Membership

Have you recently moved to Connecticut, or are you about to? If you are a current ASCE and local Section member you can transfer your Section membership to CSCE. Once you move to Connecticut, you may go online to www.asce.org/myprofile and log in change your address information. This will initiate the transfer from your old Section to the Connecticut Section. If you encounter any trouble while online, you can also contact the ASCE Records Department via email at memrec@asce.org or (703) 295-6300 to provide you new address information and the transfer can be handled that way as well.

If you are moving out of Connecticut, you can follow the same procedure to transfer from CSCE to you new local Section. We are sorry to see you go, but hope that you continue to be active in ASCE and your new local Section. For information about the local Section for where you are moving, you can visit the ASCE website @: http://www.asce.org/Regions-Sections-Branches/

Advancing your Membership Grade

Do you need to advance your membership grade? Are you a recent graduate? Did you get your P.E. license? ASCE and CSCE encourage you to advance your membership grade as your professional career progresses. Information and instructions are available on the ASCE website

10 Free PDHs

Did you know ASCE members receive 10 Free PDHs.

Choose up to 10 out of 200 on-demand webinars from the comprehensive continuing education library

All active professional ASCE members have access to the courses. If you have already selected your free courses, go directly to MyLearning. Check out other continuing education opportunities too.

ASCE updates free On-Demand Webinars on January 1. Free webinars must be used (viewed and exam taken) between January 1 and **December 31**. When you join or renew for the next membership year, you can select ten additional free webinars as early as January 1 of the following membership year. Access them at www.asce.org/freepdh. You are required to pass an exam on the webinar's content to receive a free PDH.

Unemployed?

ASCE National has a program to waive dues of unemployed members. For more information,

Write to:

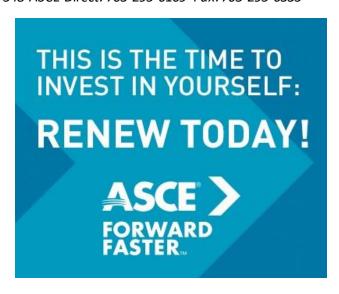
ASCE

Attn: Member Services Dept.

1801 Alexander Bell Drive

Reston, VA 20191-4382

Or Call: Toll free: 1-800-548-ASCE Direct: 703-295-6169 Fax: 703-295-6335







About **CSCE**

The CSCE is the result of a merger of two organizations that occurred 30 years ago. The Connecticut Society of Civil Engineers was founded in 1884, while the Connecticut Section of the American Society of Civil Engineers was founded in 1919. In 1958, the Section had 523 members. In 1955 (the nearest comparable year for reliable numbers), the Society had 1,033 members. The two organizations met separately until they merged in 1981, by mutual vote of membership, to become the Connecticut Society of Civil Engineers Section of American Society of Civil Engineers or CSCE.

Civil Engineers design and build our increasingly complex infrastructure; work with government officials, citizens and businesses to promote better infrastructure maintenance and renewal; and build commerce in Connecticut and throughout the World. We serve diverse industries including government, consulting, construction, academics and manufacturing and we work in a variety of disciplines including geotechnical, environmental, structures, transportation, and water resources.

Contact Us

The 2021-2022 CSCE Executive Board thanks you for taking the time to read this newsletter. Should you have any questions, comments, or concerns - feel free to contact <u>one of our members</u>.