

May 2023 Newsletter

www.csce.org

From the President

Dear CSCE Members,

I hope this newsletter finds you well, and you are starting to enjoy the nice summer weather! CSCE had a virtual lunch meeting on May 17th that was sponsored by the CT Chapter of the ASCE Transportation and Development Institute, when Patricia (McMohan) Houser, Ph.D., AICP, of CCSU gave a presentation on, *Saving the World, One Protected Bike Lane at a Time*. It was great to learn how bicycles play important roles in our transportation systems and I am excited about hosting more virtual meetings like this one in the upcoming CSCE program year.

CSCE also hosted our 16th Annual Achievement in Civil Engineering (ACE) Awards at the Aqua Turf Club on May 23rd and the event went off without a hitch! Congratulations to all the winners of the project awards and the individual awards. I hope you will read more about them in this newsletter. Our upcoming events include our 28th Annual CSCE/CT ITE Golf Outing on June 23rd, our 2nd Annual GEO-CT Conference coordinated by the CT Valley Chapter of the ASCE Geo-Institute on September 22nd and a Structural Engineering Seminar coordinated by the CT Chapter of the ASCE Structural Engineering Institute on October 20th. I hope you will be able to join us at one or more of these events.

Lastly, CSCE is looking for a CSCE member to join the 2023-24 CSCE Executive Board as the Newsletter Editor. It is a great opportunity to learn more about CSCE's activities and share them with the CSCE membership. If you are interested in this position, please send an email to csceinfo@gmail.com.

Thank you all and have a great summer!

Sincerely,
Aaron Foster, P.E., M. ASCE



Upcoming Events



28th Annual CSCE/CT ITE Scholarship Golf Outing

Sponsored By:  New England
Traffic Solutions

LOCHNER

Your Company Logo
Could Go Here

**CDM
Smith**
listen. think. deliver.

SAVE the DATE!
Friday, June 23, 2023

Timberlin Golf Club, 330 Southington Road, Berlin, CT

Volunteers Needed! Please contact Nathan Rossi at Nathan.Rossi@Parsons.com if you can help prepare for the Outing or help at the Outing on 6/23.



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A Better World By Design
Connecticut Society of Civil Engineers
Section of ASCE



28th Annual CSCE/CT ITE Scholarship Golf Outing

Friday, June 23, 2023

Timberlin Golf Club - 330 Southington Road, Berlin, CT

Registration

- Foursome - \$500 – *Includes Lunch, Dinner, and Golf Cart*
- Single Golfer - \$135 – *Includes, Lunch Dinner, and Golf Cart*
- Student Golfer - \$110 - *Includes, Lunch Dinner, and Golf Cart*
- Dinner Only - \$50

Sponsorship Levels

- **MULLIGAN \$1000** – Your Logo on “Mulligan Coins” available for purchase by golfers at event, includes a Foursome – ONLY 1 MULLIGAN Sponsorship available - Act fast!
- **EAGLE \$750** – Dinner Advertising, includes registration for 2 golfers
- **BIRDIE \$500** – Funds raffle prizes, advertised during raffle at dinner
- **PAR \$150** – 11” x 17” Tee Box Sign posted at the event

Questions:

CSCEinfo@gmail.com

Register and Pay Online: [CSCE.org](https://www.csce.org)

Registration @ 11:00am
Shotgun Start @12:00pm



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Past Events

**May 11, 2023 - FREE Site Tour of United Concrete Products Plant in Wallingford, CT
Coordinated by the CSCE Younger Member Group (YMG)**

The CSCE YMG organized a tour of the United Concrete facilities in Wallingford, CT, during the afternoon of May 11, 2023. The tour was followed by a social event at Counter Weight Brewing in Cheshire, CT. The tour was led by Dave Topa and Chris Moore from United Concrete Products. Twenty-six attendees including students, Younger Members and CSCE Members, donned safety glasses and walked the plants to see the production processes and final products manufactured at the plants. The tour leaders provided information about what attendees were seeing and answered questions. Details about the market and business operations were also shared as they relate to the work done by engineers in the industry, and contact information was exchanged. Attendees expressed that the tour was both interesting and informative. Following the tour, a significant portion of attendees met at the brewery to socialize. Food and drinks were available for individuals to purchase.

The event was the first site tour held since the Covid-19 pandemic began and it was well-attended. The content was highly relevant to civil engineers and the attendees were engaged and asking questions. United Concrete was happy to have a large audience and is interested in holding additional similar events in the future.

May 17, 2023 - Virtual Lunch Meeting

At this meeting, Patricia (McMohan) Houser, Ph.D., AICP, of CCSU gave a presentation on *Saving the World, One Protected Bike Lane at a Time*. This talk summarized peer-reviewed literature, as recent as 2023, highlighting the impacts of different bicycle lane designs on economics, health and environment, and the role of active transportation in overall urban design. Dr. Houser made the case for infrastructure redesign as the key to enjoying the world-changing benefits of the lowly bicycle. Thirty-four people attended the meeting and ten CSCE Members and Non-CSCE Members earned 1 New York State Professional Development Hour (NYS PDH) at this event.



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Recap of the 2023 ACE Awards

On May 23, 2023, the Connecticut Society of Civil Engineers (CSCE) recognized recent civil engineering achievements in Connecticut at its 16th Annual Achievement in Civil Engineering (ACE) Awards ceremony at the Aqua Turf Club in Plantsville, CT.

The following individuals, firms and projects were honored:

2023 ASCE Life Members: Seven CSCE members achieved ASCE Life Member Status in 2023 and were recognized at the 2023 ACE Awards. The seven individuals were Jose-Miguel Albaine, P.E., Robert Alger, P.E., Michael Garbolski, P.E., Daniel Minturn, P.E., Brian Natwick, P.E., Steven Peterson, P.E., and David Whitney, P.E. To obtain Life Member status, individuals in the grade of Fellow, Member, Associate Member, or Affiliate must be at least 65 years old, have paid dues in any membership grade except student for at least 35 years, and have had ten years continuous membership immediately preceding the attainment of Life Member. To honor this achievement, these individuals were given certificates and Life Member lapel pins.

2023 Civil Engineering Educator of the Year -Goli Nossoni, Ph.D., University of New Haven

This award was presented to an outstanding educator who has demonstrated excellence and innovation in effective teaching and learning; contributed substantially in educating future engineers; and/or has advanced research topics in the field of Civil Engineering.

Dr. Nossoni's teaching philosophy can be summarized as, "hard on the problems - mentor the students," and, "Real-world Discovery." She obtained her B.S. from the University of Zanjan in Iran and her M.S. & Ph.D. from Michigan State University. She teaches undergraduate Mechanics & Materials and Concrete Design courses, which can be very dull courses that force students to memorize, rather than learn the true concepts behind design. Instead, the special visuals she has developed serve to draw students into the question of forces and enhance understanding of the subject matter. It is almost like they are participating in a conversation. Dr. Nossoni has a unique ability to generate synergy in a classroom, and by challenging students, they reach the highest levels of the cognitive ability hierarchy.

2023 Young Civil Engineer of the Year Award - Thomas Wamser, PE, PTOE, RSP2I, Tighe & Bond

Nominees must be an ASCE member, a Professional Engineer, and be 35 years of age or younger.

Tom Wamser is a hardworking, intelligent young civil engineer who is making significant impacts in the profession through his involvement with work and professional organizations, especially CSCE and the Institute of Transportation Engineers. He continues to develop himself professionally, as not only a licensed professional, but with certifications such as the Professional Traffic Operations Engineer (PTOE) and Road Safety Professional 2 (Infrastructure) (RSP2I). Tom is one of only 200 engineers nationally to be designated a Level 2 Roadway Safety Professional with an Infrastructure specialty. While he has been involved with CSCE since 2017, throughout this past year, he has stepped up his leadership in CSCE, especially within the Younger Member Group. He played a key role in planning and running a very successful Eastern Region Younger Members Conference (ERYMC) that was hosted in Hartford in June of 2022.

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Recap of the 2023 ACE Awards - May 23, 2023 (Continued)

2023 Employer of the Year - Connecticut Department of Transportation (CTDOT)

This award recognized a Connecticut-based employer that has shown support for CSCE and encourages employee participation in CSCE events and initiatives. Employers should have demonstrated a commitment to regularly support CSCE activities through sponsorship, attendance and service during the year.

CTDOT employs over 3,500 employees statewide across five Bureaus. Its mission is to provide a safe and efficient multimodal transportation network that improves the quality of life and promotes economic vitality for the State and the region. Commissioner Garrett Eucalitto has been an advocate for employees to get more involved with professional organizations. With the Commissioner placing so much value and providing support for professional development, leaders at all levels at DOT are, in turn, encouraging their team members to be involved. In 2022, DOT became a partner through ASCE's DOT Partner Program, which provides discounts on membership dues and seminars, PE Exam Review courses, and more. By enrolling in this program, CTDOT is not only making ASCE more accessible for their employees, but it is being supportive of ASCE and how being involved with ASCE/CSCE can help your professional growth.

President's Award - Jeff Benoit, P.E., AI Engineers

Presidents Awards are awarded to individuals selected by the outgoing president who have contributed to the advancement of the Section through their efforts over the preceding year.

Jeff Benoit obtained ASCE Life Member status at the ACE Awards last year when CSCE honored those Life Members in the CSCE 2021-22 fiscal year and has been assisting the CSCE Board with monthly dinner meetings for over 30 years, acting as the CSCE Programs Committee Chairperson since 1990. Jeff worked with the CTDOT from 1984-2011, serving as Chief Inspector for 24 years, from 1987 to 2011. In this time, he worked on multiple road and bridge projects and several facilities projects. He retired from CTDOT in 2011 and then joined the team at AI Engineers in 2012 as a Resident Engineer. Some notable projects in his career include Steelpointe Re-development for the City of Bridgeport, a \$100 million Bus Facility for CTDOT/NE Transit, CTDOT Operations Center Improvements and the current project he is working on: the \$170 million Route 146 Re-construction in Lincoln and North Smithfield, RI.

Benjamin Wright Award - Michael Culmo, P.E., CHA Consulting

Born in Wethersfield, CT in 1770, Benjamin Wright was an American civil engineer who was the chief engineer of the Erie Canal and the Chesapeake / Ohio Canal. CSCE honors Benjamin Wright, who was named by ASCE as the Father of Civil Engineering in 1969, by presenting an award in his name each year to an individual that has had outstanding contributions to the civil engineering industry.

Michael "Pete" Culmo is an engineer with over 35 years of experience in the design and construction of bridges and has been responsible for directing a structures-and-transportation design department for new expressway bridges, bridge rehabilitation, and related highway structures. He has special expertise in the field of accelerated bridge construction technologies and steel bridges. He was the principal investigator in the development of the, "2017 AASHTO Guide Specifications for Accelerated Bridge Construction," and, "Guidelines for Prefabricated Bridge Elements and Systems Tolerances and the Guidelines for Dynamic Effects for Bridge Systems," (both published in 2018). Michael Culmo was an integral contributor to the, "Triple I-Girder Straddle Bent," project that just received the ACE Award for Innovation Design and also plays a key role in the success of the UConn Steel Bridge program, which has had teams go to Nationals on multiple occasions.



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Recap of the 2023 ACE Awards - May 23, 2023 (Continued)

2023 ACE Award for Coastal Resiliency – Project: Cove River Tidal Marsh Restoration, Pedestrian Bridge and Sea Bluff Beach Park Improvements, West Haven, CT

Team Members: SLR International Corporation, City of West Haven, Terry Marine, and SG Engineering LLC
The Cove River tidal estuary has a long history of active manipulation through the use of tide gates. Salt hay cultivation and upstream flood management goals have led to the marsh to be cut off from its saltwater inflows, causing decades' worth of ecological harm to the marsh. SLR first analyzed the marsh in 1996 using 2-dimensional hydrodynamic modeling and were asked in 2021 to design a series of Self-Regulating Tidegates to allow saltwater back to the marsh for the first time in decades.



2023 ACE Award for Design-Build – Project: Route 34 Downtown Crossing –Phase 3, New Haven, CT Team Members: PRIME AE Group, Inc., KS Engineers, P.C., ZUVIC, Inc., Freeman Companies, and KWH



Downtown Crossing Phase 3 is a design-build project for the City of New Haven led by Manafort Brothers and PRIME AE Group. The design and construction included a grade separated connection of Temple Street over the new Service Drives to Congress Avenue, which will be connected via a future bridge, the Temple Street Bridge. The project was designed and approximately 95% constructed within 12 months of notice to proceed including a 20-week scheduled closure of South Frontage Road.

2023 ACE Award for Innovative Design – Project: Triple I-Girder Straddle Bent – Relocation of I-91 NB Interchange 29 & Widening of I-91 NB and Route 5/15 NB to I-84 EB, Hartford, CT

Team Members: CT Department of Transportation and Clough, Harbour & Associates/CHA Consulting

Relocating the I-91 Northbound Interchange 29 and widening I-91 Northbound and Route 5/15 Northbound to I-84 Eastbound resolved long-term congestion in Hartford, CT. CHA's design of a high-speed, two-lane ramp uses a flyover ramp bridge that has revolutionized the steel bridge industry. Its unique triple I-girder straddle bent design is structurally redundant and costs nearly 50% less than an equivalent box section. The improved traffic conditions significantly benefit development in the area.



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Recap of the 2023 ACE Awards - May 23, 2023 (Continued)

2023 ACE Award for Sustainable Development – Project: Western District Headquarters of DEEP, Watertown, CT



Team Members: GNCB Consulting Engineers, P.C., and TLB Architecture, LLC

The Western District Headquarters for the CT Department of Energy and Environmental Protection (CT DEEP) located within Black Rock State Park in Watertown, CT, is 16,000 sf of new construction that achieves LEED Platinum certification and Net Zero building performance. Multiple structural systems were incorporated into the project including structural steel framing, glue-laminated timbers, and structural-insulated panels. The foundation design was based on the site's layers of man-placed fill and a sandy glacial outwash.

2023 ACE Award for Municipal Achievement – Project: Replacement of Davis Avenue Bridge over Indian Harbor, Town of Greenwich, CT

Team Members: Benesch, Town of Greenwich, GZA GeoEnvironmental, & A Vitti Excavators

Replacing the 1930's-era Davis Avenue bridge, situated over a causeway/dam spillway adjacent to Long Island Sound, was challenging. The Benesch Team's involvement with the project, from its inception to completion, created a cooperative & collaborative environment, which restored the structural integrity of the bridge and improved vehicular and pedestrian access to Bruce Park— all while maintaining aesthetics and the Town of Greenwich's link to the past.



2023 ACE Award for Wastewater Infrastructure
Project: Stratford Wastewater Pump Station
Resiliency Project, Stratford, CT

Team Members: Tighe & Bond, Town of Stratford, and CH Nickerson



The Stratford Wastewater Pump Station project prioritized cost-effective capital improvements to harden wastewater infrastructure against storm events. Tighe & Bond, the Town of Stratford and their project partners upgraded five critical pump stations in flood prone areas to improve resiliency, ventilation, and odor control. The project team gained public support and unprecedented project funding from state agencies, cutting costs for the municipality.

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Employment Opportunities

Town of Bethel, CT - Civil Engineer

The Town of Bethel is seeking an entry-level to mid-level Civil Engineer in its Public Works Department. The ideal candidate for this position is hardworking, motivated, proficient with computer-aided design (CAD) software and geographic information systems (GIS) software, and an effective communicator with the ability to plan, organize and direct projects in a diverse range of infrastructure planning and engineering disciplines. It is preferred that candidates have:

- Bachelor's degree in Civil Engineering
- State of Connecticut Professional Engineer's license or ability to obtain license within 2 years
- Knowledge of Complete Streets principles & practices and knowledge of Connecticut MS4 requirements

Applications can be obtained on the Town's website at <https://www.bethel-ct.gov/employment>.

Applications & resumes should be sent to hr@bethel-ct.gov. Position open until filled. Salary range: \$70,000 – 85,000, commensurate with experience. Full Benefits. EOE

Siefert Associates, LLC - Structural Project Manager

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 Watertown, CT, office with hybrid work options.

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

Luchs Consulting Engineers - Civil Design Engineer

Luchs Consulting Engineers is a multi-disciplined engineering & surveying firm based in Meriden, CT. We have an immediate opportunity for a Civil Design Engineer with the following qualifications:

- 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

To post a job opening on the CSCE website or in the CSCE newsletter, please fill out the Sponsorship Request Form found on the Resources page of www.csce.org and send it along with the text of the posting and a company logo photo file to admin@csce.org or csceinfo@gmail.com. Once that information is received, CSCE will provide a cost estimate to you.

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Employment Opportunities (Continued)

City of West Haven – Assistant Eng. And Surveyor

Full-Time – 35 Hours Per Week – Union Position - Salary Range: \$50.00 - \$60.44 - Deadline to Apply – Open Until Filled

Mail Applications and Resumes to: City of West Haven, 355 Main Street, West Haven, CT 06516, Attention: Personnel

Email to: WH-Personnel@westhaven-ct.gov

Apply online at: https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=14285ba0-9310-4556-b11e-b26bc8999e9b&cclid=9200113342918_2&lang=en_US&jobId=445080

Town of Groton, CT - Town Engineer

The Town of Groton has an immediate opening for a Town Engineer (Supervisor of Technical Services). This is a full-time position with a starting salary of \$97,378. A list of qualifications and applications are available in the Human Resources Office, Groton Town Hall, 45 Fort Hill Road, Groton, CT, 06340 or on www.groton-ct.gov. Applications must be returned on or before April 7, 2023. Applications will be reviewed on an ongoing basis. The position will be reposted every 30 days as needed.

Down To Earth Consulting - Senior Project Engineer

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.

GNCB - Senior Geotech Engineer

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.

Conlon Engineering - Structural Engineer

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

Pereira Engineering - Civil Engineer, Land Surveyors and Survey Technicians

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.

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Activities of Affiliated Organizations

July 8, 2023 ~ Connecticut Military, Civilian and Construction Engineers ~ 2023 Engineer Gala

The 192nd Engineer Battalion has a strong and diverse community of over 500 soldiers located at the following Armories in Stratford, New London, East Lyme and Norwich. They have deployed to Afghanistan, Iraq, Kuwait, Mexican Border and multiple storm responses in the State of Connecticut in a time of need. They are going to celebrate that community and their shared heritage on July 8, 2023, with a formal military ball, for the first time in its history. CSCE Members are invited to join the Battalion at the Mystic Marriott hotel on July 8, 2023. Current soldiers, former soldiers, retirees, and their guests are all welcome. Limited accommodations are available at a block rate at the Mystic Marriot. This event will also have a cash bar and professional photographer. The recommended uniform for service members is Dress uniform (Blue ASUs and Green AGSUs are acceptable). Guests may dress formally in suits or dresses. Reception is 1700 - 1800. The Ceremony including the dinner meals begins promptly at 1800. The dance floor will be open from 2000 until 2300.

Register with the link below:

<https://engineergala192nd.squarespace.com/>

October 26, 2023 ~ 30th Annual Induction Ceremony at the Connecticut Women's Hall of Fame

This year's ceremony has the theme of, "Women Who Build," and will be on October 26, 2023, at 6:00 p.m. at the Bushnell Performing Arts Center in Hartford, CT. There are opportunities for sponsorships of the Induction Ceremony and related Educational Programs. Please see the links below for more information.

<https://www.cwhf.org/induction-ceremony>

Also, Females in STEM can volunteer for one of the Hall of Fame's STEMFEMS hands-on activity days for middle school girls. (<https://www.cwhf.org/stemfems-events>)

Are you 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 over 40 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.

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