CT's Civil Engineering Newsletter

June 5, 2019

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

June 2019

A Message from your 2019-2020 CSCE President

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http:// sections.asce.org /connecticut/

A Better World By Design



Dear CSCE Members,

Well, (I think) it's finally stopped raining cats and dogs, and out of the floodwaters has emerged a new CSCE Executive Board! We are a bit on the young side, but have been provided great examples of leadership by outgoing President David Chapman and Directors Chris Beaulieu and Hudson Jackson. I would like to personally thank Dave for his leadership this past year!

I am excited to go to bat in the 2019-2020 season with the great team of George Gerard, Brianna Maljanian, Aaron Foster and Scott Nolan (and a player-to-benamed-later to fill the vacant Newsletter Editor spot). And I can't forget to include our team manager, Amy Petrone!

Before we all go into the frenzy of summer construction, I would like to note that on Friday, June 14, the CSCE Structural Engineering Institute—
Connecticut Chapter is hosting a Workshop at the CTDOT on "Improved Bridge Management through Innovative Ways in Condition Assessment of Concrete Bridge Decks: Data Collection Using Robotics and Advanced Data Interpretation". Say that 10 times fast!

And for those of who can take a Friday off for some "business development" - don't forget the CSCE/ITE/ITS Golf Outing on Friday, July 19!

I hope everyone has a safe, fun and successful summer. The Board will be meeting in June to put together another round of excellent dinner meetings at our State's universities. Stay tuned!

Looking forward to serving you all,

Benjamin M. Cote, P.E., M. ASCE

Connecticut Society of Civil Engineers, President 2019-2020

Younger Members News

The CSCE Younger Members Group has its own Facebook Page.

Connect now!
www.facebook.com/CSCEYM





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!

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 2019-2020 President Ben Cote at

BCote@geopier.com 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 -

<u>June 14 (Friday)</u> - **9:00 a.m.—1:00 p.m**.—CSCE Structural Engineering Workshop - APPROVED FOR 2 NYS PDHs

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

<u>Location</u>: 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 rebars 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 President, at Jodi.Greene@wsp.com 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.



2019 Student Award Nominations

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.

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

2019 ACE Awards

On May 21, 2019, the Connecticut Society of Civil Engineers (CSCE) recognized recent civil engineering achievements in Connecticut at its 12thAnnual Achievement in Civil Engineering (ACE) Awards ceremony at the Aqua Turf Club in Plantsville, CT. The following individuals, firms and projects were honored:

2019 Civil Engineering Educator of the Year John Greenleaf, Ph.D., Quinnipiac University



2019 Civil Engineer of the Year Roy Merritt, P.E., H.W. Lochner



2019 ACE Awards (cont.)

2019 Young Civil Engineer of the Year Jodi Greene, P.E., WSP



2019 President's Award Brianna Maljanian, P.E., WSP



2019 Benjamin Wright Award David Jacobs, P.E., University of Hartford



2019 ACE Awards (cont.)

2019-2020 CSCE Executive Board



(From Left to Right) Ben Cote, George Gerard, Brianna Maljanian, Scott Nolan, Aaron Foster, Chris Beaulieu, Dave Chapman

CSCE Younger Members



(From Left to Right) George Gerard, Jodi Greene, Scott Nolan, Brianna Maljanian, Chris Fagan, Aaron Foster

Legislative Affairs Committee - Chair: Roy Merritt, P.E.

Under the leadership of Roy Merrit, P.E., the Legislative Affairs Committee investigates, studies, and makes recommendations to the Executive Board and Technical Groups concerning current standards of practice, professional ethics, other timely public issues that directly affect the interests of civil engineers and our professional practices. With the close collaboration between appropriate national committees, citizens' groups, and other professional or industry organizations we strive to arrive at mutually acceptable solutions to common problems and to coordinate support or opposition to legislation and government policies and to respond quickly to the changing needs of the profession. In 2018-2019, this Committee provided testimony on behalf of CSCE to the state legislature on the following bills:

In Support of:

Senate Bill No. 713 – An Act Concerning Open Rest Areas

<u>House Bill No. 5162 – An Act Establishing A Task Force To Study Alternative Funding Sources For Rest Areas On State Highways</u>

House Bill No. 7280 (Raised) – An Act Concerning Support For Transportation Infrastructure And The Creation Of The Connecticut Transportation Finance Authority

<u>House Bill No. 7202 – An Act Concerning The Sustainability Of Connecticut's Transportation Infrastructure</u>

In Opposition to:

<u>Senate Bill No. 917 - An Act Concerning The State Contracting Standards Board And Requirements</u>
For Privatization Contracts

<u>Senate Bill No. 1037 – An Act Concerning Verification of Contractor Employee Activity Under Certain Computer-Related State Contracts</u>

<u>Senate Bill No. 876 – An Act Authorizing And Adjusting Bonds Of The State For Capital Improvements, Transportation And Other Purposes</u>

<u>House Bill No. 877 – An Act Concerning Revenue Items To Implement The Governor's Budget</u>

From March 12-14, 2019, Brianna Maljanian, P.E.,
Jen Buchanon, P.E., and Katie Klose represented
CSCE at the 19th Annual ASCE Legislative Fly-In in
Washington, DC. While there, they attended Younger
Members training events and met with the ASCE
President-Elect and staff of Connecticut legislators.



EMPLOYMENT INFORMATION (see classifieds)

ASCE Career Connections:

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

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Direct: 703-295-6169 Fax: 703-295-6335

Younger Members Committee Events

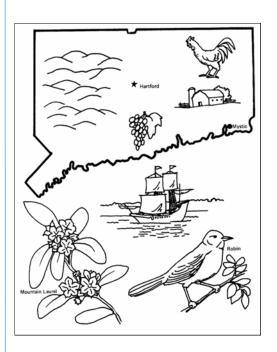
The CT Younger Members, in collaboration with ACEC, co-hosted a social event at the Harford Yard Goats game on May 16th. All attendees were treated to an in-depth tour of the Dunkin' Donuts Ballpark, followed by exclusive access to the YG Club and catering on the Sam Adam's Party Deck. Everyone enjoyed a beautiful and relaxing evening together, discussing everything from on-going projects to envisioning goals for the future of Connecticut. The Yard Goats were able to best their opponents, the New Hampshire Fisher Cats, and secure the victory 4-3, which was the cherry on top for the night! We hope to see many more events like this for the 2019/2020 CSCE Year, so keep an eye out on the newsletters and your email! See you there!





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 at Jodi.Greene@wsp.com

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

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 Jodi.Greene@wsp.com.



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.

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

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.

2019 - 2020 CSCE Executive Board

President

Benjamin Cote, P.E.

Geopier Foundation Company

165 Taylor Road

Colchester, CT 06415

860-531-9137 (Direct)

860-373-3542 (Mobile)

BCote@geopier.com

President-Elect

George Gerard, P.E.

WSP USA

500 Winding Brook Drive

Glastonbury, CT 06033

860-815-0290 (Direct)

George.Gerard@wsp.com

Vice President

Brianna Maljanian, P.E.

WSP USA

500 Winding Brook Drive

Glastonbury, CT 06033

860-815-0282

Brianna.Maljanian@wsp.com

Treasurer

Scott Nolan, E.I.T.

Milone & MacBroom, Inc.

99 Realty Drive

Cheshire, CT 06410

860-652-5799 (Mobile)

SNolan@mminc.com

Secretary

Aaron Foster, P.E.

CME Associates

101 East River Drive

East Hartford, CT 06108

860-290-4100 (Ext. 1172)

AFoster@cmeengineering.com

Director I

David Chapman, P.E.

Sr. Vice President

Blakeslee Arpaia Chapman

200 North Branford Road

Branford, CT 06405

203-627-7097 (Mobile)

dchapman@bac-inc.com

Director II

Christopher Beaulieu, P.E., LEED AP BD+C

Keville Enterprises, Inc.

1331 Silas Deane Highway

Wethersfield, CT 06109

860-966-2670 (Mobile)

CBeaulieu@keville.com

Newsletter Editor

Volunteer Opportunity

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

Benjamin Cote, P.E.

Geopier Foundation Company 165 Taylor Road Colchester, CT 06415 860-531-9137 (Direct)

860-373-3542 (Mobile)

BCote@geopier.com

Continuing Education

Open

Government Engineers

Rabih Barakat, P.E.

CT Dept. of Transportation 2800 Berlin Turnpike Newington, CT 06131 rabih.barakat@sbcglobal.net

860-594-3389 (Direct)

Legislative Affairs

Roy Merritt, P.E.

H.W. Lochner 424 Chapel Street New Haven, CT 06511 203-752-1830 (Direct)

860-670-7540 (Mobile) rmerritt@hwlochner.com

History & Heritage

Randall T. States, P.E. 306 Humphrey Street New Haven, CT 06511 rtstates@yahoo.com 203-530-9761 (Mobile) ASCE LTC

Jason F. Waterbury, P.E.

The MDC

555 Main Street, P.O. Box 800 Hartford, CT 06142-0800

Email: jwaterbury@themdc.com 860 278-7850 (Ext. 3380) (Direct)

860 209-8181 (Mobile)

Scholarship Fund

Jim Sime, P.E.

136 Jessica Drive East Hartford, CT 06118 860-569-4186 (Direct) james.sime@skiltons.org Younger Members

Jodi Greene, P.E. 500 Winding Brook Drive Glastonbury, CT 06033 860-815-0301 (Direct) Jodi.Greene@wsp.com Water Resources

Tom Loto, P.E.

Kleinfelder

200 Corporate Place, Suite 310

Rocky Hill, CT, 06067 tloto@kleinfelder.com 860-258-7177 (Direct)

860-830-1418 (Mobile)

Website

Open

Programs

Jeff Benoit, P.E. 40 Taft Pond Road Pomfret Center, CT 06259 jeffbenoit@earthlink.net 860-974-2572 (Direct)

Technical Group Chairs

Construction

William Cunningham, P.E.

Mohawk Northeast 170 Canal Street Plantsville, CT 06479 bcunningham@mohawknortheast.com 860-621-1451 (Ext. 629) (Direct)

Institutes

Connecticut Valley Geo-Institute

Benjamin Cote, P.E.

Geopier Foundation Company 165 Taylor Road Colchester, CT 06415 860-531-9137 (Direct)

860-373-3542 (Mobile)

BCote@geopier.com

Structural Engineering

 $Institute-CT\ Chapter$

Ranjit Bhave, P.E.

Parsons

330 Roberts Street, Suite 401

East Hartford, CT 06108-3604

Ranjit.bhave@parsons.com

860-200-9168 (Direct)

203-278-7767 (Mobile)

EMPLOYMENT CLASSIFIEDS



<u>Cardinal Engineering Associates, Inc. – Various Engineering Positions</u> Job Posted: June 3, 2019

Cardinal Engineering Associates, Inc. an established multi-disciplinary civil engineering firm located in Meriden CT is seeking to fill the following positions:

Civil/Hydraulic Engineer with expertise in Hydrology and Hydraulics with broad experience in civil engineering including river and bridge hydraulics and scour, flood studies, sanitary and storm sewer studies and design, stormwater management, and design experience. The ideal candidate will have a BSCE or MSCE degree and 7 years' minimum experience, and be a CTDOT certified Hydraulic Engineer and have experience with HEC RAS, HEC1, TR20, SWMM, StormCAD and HydroCAD. This position offers an excellent opportunity for advancement. Civil/Transportation Engineer: BSCE with expertise in traffic engineering, planning, public involvement, roadway design, bike trails and streetscapes, and experience on CTDOT funded projects.

Senior Project Manager/Design Manager: Experienced Civil Engineer with well rounded experience in design, management of civil engineering projects, and client management. BSCE, MSCE preferred, 15 years' minimum experience and CT PE license required. The successful candidate must have excellent communications skills and experience in client management This position offers an excellent growth opportunity for someone who would like to advance to principal.

Resident Engineers and Inspectors: Minimum 5 years' experience in water and sewer projects Resident Engineers with minimum 5 year's experience in municipal and CTDOT roadway and bridge projects. Inspectors must have BSCE or NICET Certification, Resident Engineers must have a NICET IV or a CT P.E. license.

Interested candidates should send a cover letter and resume to <u>jac3@cardinal-engineering.com</u>. Cardinal is an equal opportunity employer that offers a comprehensive benefits package including health care, disability and life insurance, and a 401K plan.

EMPLOYMENT CLASSIFIEDS



<u>Nathan L. Jacobson & Associates – Project Engineer (3-5 Years Experience)</u> Job Posted: May 22, 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 in Civil Engineering and 3-5 years' experience in general municipal engineering and infrastructure improvement projects. EIT, and AutoCAD Civil 3D experience, required. An Equal Opportunity Employer. For more information and to apply, visit our website; www.nlja.com.



<u>Town of Simsbury - Engineer</u>

Job Posted: May 22, 2019

The Town of Simsbury is looking to fill an opening in its Engineering Department. The position prepares or supervises the preparation of plans, specifications, quantity take-offs and cost estimates for public works projects; including streets, drainage, sewers, water mains, sidewalks, bridges, recreational facilities and other related work. The position may perform or supervise survey for location, design, project layout and as-builts. A candidate should have in-depth knowledge of AutoCAD, Microsoft Office products, and some experience with manual and electronic surveying instruments. A bachelor's degree in Civil Engineering is needed. The standard work week is 35 hours a week, with a salary range of \$70,240 - \$83,942 annually.



<u>Down To Earth Consulting, LLC – Staff Engineer/Geologist</u> 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; o 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.

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 midlevel 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



<u>Pereira Engineering, LLC – Shelton Office – Survey Technician</u> Job Posted: February 5, 2019

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

LANGAN

<u>Langan- New Haven Office - Civil Engineer</u>

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



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

<u>WSP - Glastonbury, New Haven and Norwalk Offices - Project Controls Specialist</u> 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