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Volume 02 | October 2022

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## VTASCE Monthly News and Updates

Good afternoon members of the Vermont Section of ASCE! We hope you all are enjoying the wonderful fall foliage and are getting excited for the winter season. Don't forget to RSVP to our Annual Geo Institute Meeting at Norwich University on Thursday October 20th and please Save the Date for our Joint ASCE NH-VT meeting at Hotel Coolidge in White River Junction on Thursday November 17th!

In this newsletter, you'll find:

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Reminder that we are now on Instagram! Follow us at [@vtasce](#)

For more information about Vermont ASCE you can always visit our website using the link below. Also see **job postings** and a list of our **sponsors** below. If you have any questions about the many benefits of being a Vermont ASCE member, please don't hesitate to contact us using the button below or visit the ASCE Website [Member Benefits](#). If you would like to become a member or renew your membership, please use the links below.

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## **President's Message**

Hello all.

Happy October! The Green Mountains have certainly put on a beautiful show of colors in the last week or two. I hope everyone was able to get out and see the fire on the mountains! The VT ASCE Board is happy to be back in the swing this year, gathering with our members and student chapters, and reconnecting.

As always, we have some exciting events coming up! Our annual Geo-Institute Meeting held at Norwich University is coming up in just a few short weeks. Please consider joining us for this fun event. More details and a link to registration is below.

We are looking to our VT Engineering community to submit entries to the second annual ASCE Project of the Year Award. We would also like to invite anyone to reach out with any technical project presentation that they may have to fill one of our monthly virtual lunch and learns this year.



As always, if anyone has any questions about ASCE, would like to become more involved, or would just like to connect, please feel free to reach out!

Thank you,

Jordan Duffy

[Jmduffy72167@gmail.com](mailto:Jmduffy72167@gmail.com)

## **Upcoming ASCE Events**

### **Annual Geo Institute Meeting at Norwich University - October 20th**

Please join us on Thursday October 20th for the 2022 VT ASCE Geo-Institute meeting. The meeting will be held at the Milano Ballroom at Norwich University. The meeting will consist of a drone flight demonstration, dinner, and a technical presentation by Donald L. Hamlin Consulting Engineers about modern drone surveying in Vermont. PDH's will be available.



RSVP Here!

### **SAVE THE DATE - Joint ASCE NH-VT Meeting at Hotel Coolidge - November 17th**



We will be having our annual Joint ASCE NH-VT Meeting at Hotel Coolidge in White River Junction, VT on Thursday November 17th. More info and an event invite to come soon!

## **2022 President's Medal - Brad Aldrich**

Brad Aldrich, P.E., F.NSPE, F.ASCE has been recognized from the ASCE President and Executive Committee with the 2022 President's Medal. It is very

exciting to hear about someone from our Vermont engineering community that has been honored and recognized by the National Society. Congratulations on your recognition Brad!

Mr. Aldrich is a founding partner, and former President at Aldrich + Elliott, PC, (A+E), a water resources engineering firm in Essex, VT. Mr. Aldrich is a past President of the National Society of Professional Engineers (NSPE) and is a fellow of both NSPE and ASCE. Mr. Aldrich served on the Vermont Board of Professional Regulation for Engineers for eleven years, including five years as chair. Mr. Aldrich was recognized as Vermont Engineer of the Year in 2013.



Mr. Aldrich has served on numerous committees for the American Society of Professional Engineers (ASCE), and currently chairs the Committee on Preparing the Future Civil Engineer, whose primary charge is to promote ASCE's Engineer Tomorrow Initiative, which focuses on preparing civil engineers to serve in the future. Mr. Aldrich is lead-author for several peer-reviewed academic papers centered on how rapid changes in our world impact civil engineering practice and the need for civil engineers to attain and maintain the competencies defined in the Civil Engineering Body of Knowledge to meet their duty to society when serving in responsible charge. Competencies that go beyond those required for engineering licensure. Mr. Aldrich is being recognized for his advocacy and role in leading this initiative.

## **New Board of Directors**

We would like to introduce this year's VT ASCE Board of Directors. We have a good mix of familiar faces, and new members joining our board to help serve our VT Engineering community this year.

### **Jordan Duffy, PE - President**

Jordan Duffy P.E. is a water resources engineer at Fitzgerald Environmental Associates, focusing on hydrologic and hydraulic analysis, stormwater design and permitting, and geomorphology. Jordan has been involved in ASCE since his time at UVM, where he served as the Student Chapter's Vice President in 2015. Since graduation, Jordan has been an active board member for the Vermont Chapter, serving as both the Membership chair and the Younger Member chair, promoting

membership for young Vermont engineers and helping to plan events to foster a more connected engineering community in Vermont. Currently, Jordan is the Vermont chapter's president. Jordan enjoys the Green Mountains by snowboarding, mountain biking, and rock climbing.



### **Matthew Estabrooks, PE – President Elect**

Matt received his BS in Civil Engineering from the University of Vermont in 2007 and is a licensed professional engineer in Vermont and New Hampshire. He is a Project Manager at Sanborn Head in Burlington, Vermont with expertise in environmental engineering, permitting, and compliance. He lives in Waitsfield with his wife, three children, dog, and cat. When he is not working, he loves spending time with his family and friends, cooking good food, and exploring the outdoors. In the winter you can find him on the mountain skiing and snowboarding; in the summer, you can find him hiking or playing a round of golf. Matt has been actively involved in ASCE since 2013 including contributing to the Vermont infrastructure report card and serving as Treasurer and Younger Member Committee Chair for the Vermont Section.



### **Tyler Barnard, EIT - Past-President**

Tyler Barnard has served on the Board of Directors for the VT ASCE chapter since 2015. Membership Chair 2015-2019, President Elect 2019-2020, and President 2020-2021. During this time, he has helped organize social events, dinner meetings, virtual webinars, and has co-authored the stormwater section of the 2019 and 2023 ASCE Vermont Infrastructure Report Card.

Tyler graduated from Penn State University in the winter of 2014 with a Bachelor's Degree in Civil Engineering. Working for Engineering Ventures in Burlington, he performs a broad range of water, sewer, stormwater, and general site design for commercial and residential projects of all sizes.



### **Stephanie Wyman, PE – Region 1 Governor**



Stephanie received her BS in Environmental Engineering in 2011 from the University of Vermont and is a licensed professional engineer in Maine and Vermont. As a civil engineer at VHB she works on the design and permitting of solar array and battery energy storage projects, residential and commercial site development, and stormwater retrofits throughout Vermont. Prior to joining VHB she worked in Maine and Pennsylvania on the design and permitting of multi-modal transportation projects, traffic impact studies, sea-level rise studies, and specialized in EPSC permitting. She has been actively involved in ASCE since 2013 and is looking forward to continuing to serve the Vermont ASCE community as a Region 1 Governor.



**Jessica Clark Louisos, MS, PE - Government Relations Chair**

Jessica is a Senior Water Resources Engineer with SLR Consulting, specializing in flood resiliency, aquatic organism passage, dam removal and repair, stormwater planning and design, flood mitigation, and restoration of rivers, floodplains, and habitat. Jessica graduated from the University of Vermont in 2004 with a BS and 2006 with an MS in Civil and Environmental Engineering with a water resource focus. Jessica is a Past President of the Vermont Section of ASCE and was the 2013 Vermont Young Engineer of the Year.



**Christopher Gendron, PE - New England Delegate**

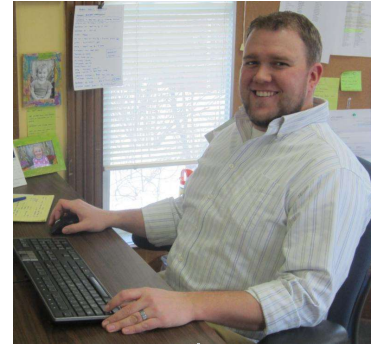
Since joining Stantec in 2010, Mr. Gendron has become passionate about working on projects that grow and enhance our communities. He takes pride working cooperatively with the design team, owners and regulators to ensure projects are delivered to the client's satisfaction. While his focus is on land development projects, he has a broad depth of experience across many disciplines including aviation, transportation, bike/ped and stormwater treatment. He has also developed close relationships with scientist, landscape architects and engineers across the region to support clients across multiple facets of project development.



**George McCain, PE – New England Delegate**

George N. McCain Jr., P.E. is a Project Manager and part-owner of McCain Consulting, Inc. providing Civil Engineering and Land Use Planning services for projects across central Vermont. George has been actively involved in the Vermont Section of ASCE and served multiple roles since 2010 including Section President in

2017. George was named Vermont's Young Engineer of the Year in 2015.

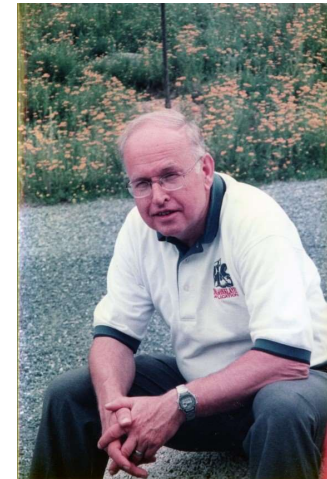


**John Stevens, PE - Vermont Geo-Institute Representative**

John retired after 28 years of teaching at Norwich University. There he taught classes in Geotechnical Engineering, Transportation Engineering, Testing Materials Laboratory and other courses. In addition, John was Chair of the Civil Engineering Department and Head of the Crawford School of Engineering. Prior to teaching, John was a Senior Engineer with Woodward-Clyde Consultants in Houston, TX in their Offshore Group. He has been practicing Geotechnical Engineering for 47 years.

John is still quite busy even though retired. He is a member of the Northfield Select Board and Treasurer of the Brown Public Library in Northfield. Recently he was Vice-President for Facilities of the Green Mountain Council, BSA.

When he has free time, John likes to go kayaking, geocaching, downhill skiing and ride the rail trails on his bicycle.



**Laura Tracy – Secretary**

Laura is a senior project engineer at Sanborn Head in Burlington, Vermont in the solid waste client service area. She received her BS in Environmental Engineering in 2016 from the University of Vermont. As a senior project engineer at Sanborn Head, she specializes in landfill design, stormwater planning and design, geotechnical engineering and compliance within the state of Vermont. Laura has been actively involved in ASCE since 2019 including contributing to the Vermont infrastructure report card and serving as Membership Chair of the Vermont Section.



**Sean Wines, EIT – Younger Member Chair**

Sean Wines E.I.T. is a Structural Engineer in Stantec's South Burlington office, focusing on highway and railroad bridges. Sean has been involved in ASCE since his freshman year at UVM where he participated in the steel bridge club all 4 years and was the captain his final year. After graduation Sean worked towards staying active with ASCE by taking the social media chair. Sean uses social media to help promote the different kinds of engineering found in the Vermont section of ASCE as well as to promote community events and successes.



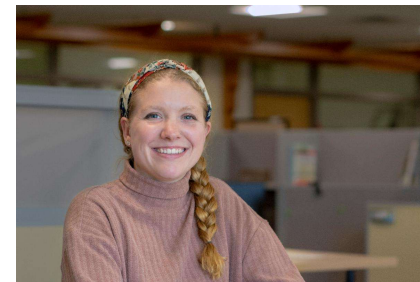
### **Alex Lulias, EIT - Treasurer**

Alex received his BS in Civil Engineering in 2018 from the University of Wyoming with an emphasis in land surveying and geotechnical engineering and is currently in the process of obtaining his master's degree in geotechnical engineering at the University of Oklahoma. As an engineer as Sanborn Head, he works on geotechnical engineering projects including in-situ testing and corresponding subsurface exploration reports as well as construction quality assurance services for the solid waste client service area within the state of Vermont. Prior to joining Sanborn Head, he primarily worked in Michigan designing various aspects of wind farms including access roads, culvert design, collection line and construction layout as well as big box land development projects. He has been involved in ASCE since 2020 is excited to take on the role of treasurer.



### **Andrea Ameden, EIT - Membership Chair**

Andrea was involved in the University of Vermont ASCE student chapter as president and treasurer, graduating in 2018 with a B.S. in Civil Engineering. She looks forward to returning to the VT ASCE Board as Membership Chair this year. Andrea worked as a stormwater designer and permit coordinator at Stevens & Associates in Brattleboro, focusing on stormwater retrofits and land use/environmental permitting. She now works at VHB as a Water Resources Specialist where she assists with operational and construction stormwater design, site design and grading, hydraulic and hydrologic analysis, and environmental permit compliance. In her free time, Andrea enjoys hiking, hunting, and foraging all the Green Mountains have to offer.



### **Rachel Galus, EIT – Newsletter Editor**

Rachel received their BS in Environmental Engineering in 2020 from the University of Vermont with a minor in Geospatial Technologies. They are a licensed engineer in training (EIT) and Class A Designer for wastewater systems and water supply design for the State of Vermont. As an EIT at Stantec in South Burlington, they work primarily in the transportation industry



focusing on stormwater design and engineering, environmental site assessments, and GIS mapping. They have been actively involved in ASCE since the spring of 2020 and are looking forward to continuing to distribute exciting information to the Vermont ASCE community as Newsletter Editor.



## **Project of the Year - Call for Projects**

The Vermont Section of the American Society of Civil Engineers (ASCE) is excited to request projects for its second annual Project of the Year Award. To nominate a Project for this award, the Project must have been constructed within the last two years or will be substantially complete by May 2023. The Project of the Year Award will be presented at the VT ASCE Annual Meeting along with the Engineer of the Year Award and Young Engineer of the Year Award. Each Project will be assessed on three criteria:

### Grading Criteria (scale of 1-10 points each)

1. Design or construction methodology uses new or innovative technology, techniques, and/or materials
2. Demonstrates an overall benefit to the local community
3. Utilizes sustainable engineering practices and resources in a way that does not compromise the environment or deplete natural resources for future generations

### Additional submission requirements:

1. Project must have been constructed or substantially complete between January 2021 and May 2023.
2. At least one member of the design team or construction team must be a member of Vermont ASCE.
3. The Project submission deadline is December 31, 2022

Please complete the application form by following the link below and e-mail Project photos by December 31, 2022 to Stephanie Wyman, [swyman@vhb.com](mailto:swyman@vhb.com).

2022 Flyer

2022 Nomination Form

## **September Events Re-Cap**

## UVM STEM Complex Tour - September 28th

Thanks to everyone who attended our September meeting at UVM. We were given a tour of the new UVM STEM facilities, with follow up presentations from UVM faculty and graduate students on current research. A social hour followed with pizza, and great networking with UVM students and professionals.





## Other Upcoming Events

### ASCE Live 2022 Convention in Anaheim, CA - October 23rd - 26th

It's that time again for the ASCE live 2022 Convention and I hope you will consider attending. The dates are October 23-26, and the location is the *Disneyland®* Hotel in Anaheim, CA.

The convention program includes multi-disciplinary, technical, and educational components to meet the needs of all disciplines





and levels of experience, including key topics that enhance attendees' managerial and leadership skills.

This is a unique opportunity to renew and expand relationships one-on-one in a live setting through networking opportunities throughout the Convention.

You can find program highlights and registration information at [www.asceconvention.org](http://www.asceconvention.org)

## Other Announcements

### New "Energy Goals" Requirement

In 2020, the General Assembly passed Act 178, which requires certain professionals licensed by OPR to complete an education module related to the State's energy goals as a condition of license renewal. See [Act 178 \(2020\), Sec. 33](#). This requirement takes effect on July 1, 2021.<sup>[1]</sup>



The law applies to: (1) architects, (2) landscape architects, (3) pollution abatement facility operators, (4) water system designers, (5) professional engineers, (6) property inspectors, (7) real estate appraisers, and (8) real estate brokers and salespersons. The law also applies to some Vermonters licensed by other State agencies, such as the Department of Public Safety.

What is Required?

To help you meet the new requirement, OPR has partnered with other agencies to produce a PowerPoint that offers a concise, general orientation to the State's energy goals. These goals are derived from specific acts of the General Assembly.

You can view the orientation module [here](#). Doing so now will save you time when you renew.

At the first upcoming renewal, the application form will require that you affirm having completed the orientation module linked above. It cannot be counted toward continuing education or competency requirements.

At each biennial renewal after the next, the law will require that you affirm having completed an education module specific to your profession's role in meeting the State's energy goals. By that time, environmental groups, state agencies, professional associations, and purveyors of green-energy products and services, will very likely offer a menu of free or low-cost options that satisfy the new requirement. Many of these will be eligible for continuing education credit in fields that require CE.

Please [contact OPR](#) if you have questions regarding this requirement.

[1] Pollution abatement facility operators: Although your renewal period opened in June, the effective date of your renewed license will be after July 1, 2021. Consequently, the new requirement applies to your current renewal.

## Job Postings

Does your organization have job openings and internship opportunities? Consider UVM civil and environmental engineering students. Reach out to Mandar Dewoolkar ([mdewoolk@uvm.edu](mailto:mdewoolk@uvm.edu)) and Holly Fosher ([Holly.Fosher@uvm.edu](mailto:Holly.Fosher@uvm.edu)) today for more information.

[Email Mandar](#)

[Email Holly](#)

If you're interested in posting a career opportunity here, please fill out [this form](#) or reach out our treasurer [Alex Lulias](#). These newsletters go out to over 350 of our Vermont ASCE members made up of practicing civil engineers.

## 10 Free PDH's for ASCE Members

Login to enroll in your free on-demand webinars and earn PDHs for each one you successfully complete. Choose up to 10 webinars from the 90 on-demand webinars. Each one is a 1-hour webinar worth 1 PDH. That's 10 free PDHs from our comprehensive continuing education library – just for being a member!



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