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## The Green Mountain Civil Report

May 2017

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VT ASCE is now on

Dear ,

Hello again to all VT ASCE Members & Friends! We have another packed newsletter this month, so I'll go ahead and get right to it - just a few quick points that I'd like to start with:

Wednesday May 10 is our annual past-president breakfast, but any ASCE member is welcome. We will be hosting the National President-Elect, Kristina Swallow, at the Capitol Plaza in Montpelier. **We have just a couple spots left, please RSVP immediately if you'd like to join us!** Please also keep your eyes peeled for an invitation to our Annual Meeting in June - we will be appointing next year's board of directors, and look forward to a great presentation on Act 64 and Vermont Water Quality by Tom DiPietro with the City of South Burlington.

ASCE's National Election is underway as of May 1st. It's incredibly easy to vote and be involved in the process, and more details are enclosed below. Or simply visit <http://www.asce.org/votenow> to



LinkedIn!

LinkedIn is a great way to stay up to date and connected to all of VT ASCE's members and events.

Help us build our content by posting to [our group!](#)

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Make sure to check out ASCE's Continuing Education Page.

[Click Here!](#)

#### 2016 - 2017 Vermont ASCE Officers

Title	Name
Past President	<a href="#">Jessica Louisos, P.E.</a>
President	George N. McCain Jr., P.E.
President-Elect	Nathan Pion, P.E.
Treasurer	Christopher Gendron, P.E.

get started. Voting is open until June 1, so head over early to make sure you don't miss it.

I'd also like to once again invite anyone and everyone who might be interested in joining the VT ASCE Board of Directors to please get in touch with myself or someone else on the Board. We will be holding elections later this month, and there are several openings where you could have the chance to get more involved in Vermont's engineering community. Whatever your interests or time commitment, there are a number of ways that you could get involved. Let someone know if you're interested and we can find a role that fits.

In this month's newsletter you'll find:

- [2017 Past President Breakfast with ASCE National President-Elect Kristina Swallow - May 10](#)
- [ASCE National Election Information](#)
- [Joint VT ASCE & SEA-VT April Dinner Meeting on the Lake Fairlee Dam Project](#)
- [104th Annual Meeting of the Vermont Society of Engineers & VT ASCE Joint Meeting](#)
- [VT ASCE K-12 Outreach Opportunity](#)
- [UVM Places 3rd at New England Region Steel Bridge](#)
- [2017 ASCE Fly-In & Advocating for Infrastructure - WE NEED YOUR HELP!](#)
- [ASCE 2017 Infrastructure Report Card](#)
- [UVM Capstone Design Update](#)
- [ACEC of Vermont Soils Seminar](#)

Thank you for your time, and happy Spring!

George N. McCain Jr., P.E., M.ASCE

## 2017 "Past President Breakfast" with ASCE National President-Elect Kristina L. Swallow

All members are invited to celebrate our Past Presidents over breakfast at the Capital Plaza Hotel in Montpelier, VT.

ASCE national president-elect Kristina Swallow, P.E., ENV SP, F.ASCE will lead a discussion on her work as Las Vegas public works engineer and national engineering issues. You do not have to be a past

Secretary	Branden Martin, E.I.
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New England Council Delegate	Jessica Louisos, P.E.
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UVM Practitioner Advisor	Pat Finn, E.I.
Norwich Practitioner Advisor	Chris Rivet, P.E.
Young Member Committee Chair	Dylan Quinn, E.I.
Government Relations Chair	Amanda Hanaway-Corrente, P.E.

president to attend, it is open to all! Don't miss this opportunity to network with other members and the ASCE National President-Elect!

All members are invited to attend to help us celebrate our Past Presidents.

This is a great opportunity to have direct access to one of the top leaders of the society.

[Click here to register or RSVP.](#)



**KRISTINA L. SWALLOW,  
P.E., ENV SP, F.ASCE**

Kristina Swallow is the 2018 ASCE President and Program Manager at City of Las Vegas. Leading a team of engineers responsible for delivering public works projects, Kristina has been with the City of Las Vegas since 2012. She is responsible for negotiating design and construction contracts, reviewing progress of the work, coordination with public and private sector stakeholders, and responding to external comments or questions.

**We Won!**

## ASCE National Election is Underway

### GENERAL INFORMATION

1. Voting is EASY!
2. Emails are distributing on Monday, May 1st - check your spam folder
3. If you didn't receive the email, don't worry because there are NO special codes this year.
4. Go to <http://www.asce.org/votenow>.



The Vermont Section won the Outstanding Section & Branch Award for Small Sections in 2012 & 2013. This means that we were the BEST small ASCE section in the nation!

5. Use your ASCE member login and password (click the links if you need assistance).
6. Follow the instructions to vote and submit your ballot.
7. The ballot includes a Constitutional Amendment to increase the size of the Board to allow the third Technical Region Director to have a vote at the table.
8. Information on the Nominees can be found on the electronic <http://www.asce.org/votenow> or the ASCE <http://www.asce.org/elections/>.
9. Students and Affiliate Members are not eligible to vote.
10. Dues must have been paid by April 1, 2017 to be eligible to vote.
11. The election will close at 5:00pm Central Daylight Time on June 1, 2017.
12. Members who prefer to vote using a paper ballot may contact <mailto:pjones@asce.org> and request that one be mailed.

### Joint VT ASCE & SEA-VT April Dinner Meeting on the Lake Fairlee Dam Project

Thanks to all that attended the April dinner meeting on the Lake Fairlee Dam project. Shawn Patenaude with Dubois & King gave a very interesting talk covering all phases of the project, from design through construction. And thanks to the Stone Corral, it was a great venue for the meeting.

**BEFORE:**



**AFTER:**



## 104th Annual Meeting of The Vermont Society of Engineers & VT ASCE Joint Meeting

Also a big thanks to everyone that was able to attend the joint meeting of VSE and ASCE at the Country Club of Vermont.

There were a number of fantastic presentations from local student groups, as well as presentations by Shawn Kelley (GeoDesign), Robert Favali (Dubois & King), and the headline presentation by Lieutenant Colonel Adam Rice, P.E., F-35 Facility Program Manager with the 158th Fighter Wing speaking on **"Challenges facing an Air National Guard Unit to prepare our installation for the arrival for the F-35 Joint Strike Fighter"**



## VT ASCE K-12 Outreach Opportunity

The Vermont Section will be visiting Essex Middle school on the 22nd and 23rd of May for an outreach event with a science class. Students will learn about how wind effects buildings and put their knowledge to use in a design challenge. There is still room for volunteers to help with this event! If interested, please contact Dylan Quinn at [DylanQ@EnineeringVentures.com](mailto:DylanQ@EnineeringVentures.com) by May 15th. Stay tuned for a follow up on the June newsletter.

## UVM Places 3rd at the New England Regional Steel Bridge Competition - Headed to Nationals

Congratulations to the UVM Steel Bridge Team for their 3rd place finish at the NE Regional Competition. Make sure to wish them all luck as they head to Oregon for the National Competition at Oregon State University. Go Cats!



## 2017 ASCE Fly-In in Washington, D.C. - VT ASCE Advocating for Infrastructure and WE NEED YOUR HELP!

The Vermont Section of ASCE participated in the annual National FlyIn. Jessica Louisos, Water Resource Engineer at Milone & MacBroom and Amanda Clayton, Director of Engineering and Environmental Compliance for Burlington International Airport (remotely due to snowstorm) represented the Vermont Section. The event included education on current engineering related bills, funding initiatives, and talking points in preparation for meeting with our congressional delegates. Meetings on the hill were extremely successful with long discussions on how infrastructure funding benefits Vermonters.

The events in Washington coincided with the release of the 2017 Infrastructure Report Card. Take a look at the informative and catchy new format. Consider downloading the app (Senator Sander's staff downloaded it to his ipad). Check out the section on Vermont's infrastructure. <http://www.infrastructurereportcard.org/>

**How you could help... Our Congressional Delegation has asked that we share our stories on how what they are doing in Washington affects Vermonters. Do you have any projects that need funding? or have been successfully completed with federal funding?**



To hear more, share your stories, or get involved in state or federal advocacy contact Jessica [jlouisos@mminc.com](mailto:jlouisos@mminc.com) or Amanda [aclayton@btv.aero](mailto:aclayton@btv.aero).



## ASCE Infrastructure Report Card 2017

ASCE has released their 2017 report card for America's Infrastructure. Every four years, ASCE Report Card depicts the condition and performance of American infrastructure in the familiar form of a school report card - assigning letter grades based on the physical condition and needed investments for improvement.

There's a plethora of information and too much to summarize in just this newsletter, but I encourage everyone to take a look at the following hyperlink to see how ASCE has performed their work. And keep an eye out in future newsletters for spotlights on the categories and how it affects Vermont.

[2017 ASCE Infrastructure Report Card](#)

## UVM Capstone Design Update

UVM's civil and environmental engineering seniors in our capstone design course are completing their projects with final presentations scheduled for May 9 and 10. We appreciate the support we have had from the practitioner community including engineers, architects, and construction professionals, ranging from direct advising of project teams, in-class presentations, to reviewing the 30% and 60% stage presentations. The projects types are:

- Infrastructure and building improvement projects  
4 Projects
- Flood, seismic, and landslide hazard mitigation  
3 Projects
- Historic bridge rehabilitation and display  
1 Project
- Lake Champlain phosphorous mitigation  
2 Projects

- Haiti low-cost building panel and water filtration R&D  
2 Projects
- Department of Energy Race to Zero Student Competition  
1 Project
- Sustainable Montpelier 2030 Competition based  
design 1 Project

We invite practitioners to the UVM Design Night presentations at the Davis Center on Friday, April 28, 2017 from 4 to 7PM and our final presentations on May 9 (4:30-9PM at Kalkin Hall Room 001) and May 10, 2017 (8:30AM-5PM at Kalkin Hall Room 004). If you plan to attend the May 9 and 10 presentations, please let either John Lens, [jelens@uvm.edu](mailto:jelens@uvm.edu), or Pattie McNatt, [Pattie.McNatt@uvm.edu](mailto:Pattie.McNatt@uvm.edu) know. The presentations will be in 50 minute sessions comprised of approximately 30 minutes of presentation followed by 20 minutes of questions and answers.

We are also interested in suggestions for future capstone projects.

## ACEC of Vermont Soils Seminar - 8 PDH Refresher Course in Field Descriptions of Soil Properties and Estimating Seasonal High Water Table

### THE COURSE:

Field Description of Soils: A course of study in the description and field identification of soils with varying wetness conditions using standards of the National Cooperative Soil Survey. Emphasis on important soil properties in the field related to soil drainage characteristics and on-site waste disposal. Upon completion, the student is expected to be knowledgeable in describing soils and estimating seasonal high water table levels.

### TEXT & PRIMARY REFERENCES (PROVIDED WITH THIS COURSE):

Redoximorphic Features for Identifying Aquic Conditions. M. J. Vespraskas, NC State Universtiy. Tech.Bulletin 301. Dec. 1992.

Field Book for Describing and Sampling Soils. Version 2. USDA-NRCS. Sept. 2002.

Origin and Nature of Soil:  
Soil Color and its Significance  
Soil Structure  
Factors of Soil Formation Features  
Redoximorphic Soil  
Types of Soil Properties  
Soil Series Information  
Slope Soil horizons and Boundaries  
Soil Consistence  
Restrictive Layers  
Drainage classes  
Permeability  
Soil Surveys:

Soil maps- how to use Web Soil Survey (<http://soils.usda.gov/survey/>) to get soils info Scale, accuracy, and map detail. Exercise using Soil Properties and Septic Rating info in the Orange County Soil Survey.

**WEBINAR CLASS:** Tuesday, May 16 (9:30 AM - 11:30 AM) FIELD DAY-  
Wednesday, May 17 (8:45 AM - 4 PM):

Describing Soils of Various Parent Material and Drainage Classes-  
Local sites

**FIELD EXAM AND COURSE REVIEW:**

Student is to 1.) Prepare a complete field description of selected pedons, and 2.) Describe role of parent material and relief on soil drainage characteristics for selected test pits. This is an open book exam.

[Click here to register, only 25 spots available](#)

You are welcome to contact me at [Vermont ASCE Newsletter](#) if you have something to contribute to the newsletter. Let us know if you have suggestions on how we may serve you better.

Sincerely,



George N. McCain Jr., P.E., M.ASCE  
ASCE Vermont Section President  
[President Vermont ASCE](#)



## Career Opportunities

If your company would like to post a job opening, please follow the link below for more information:

[Posting Jobs with VT ASCE](#)

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