



# the Green Mountain Civil Report



<http://sections.asce.org/vermont>

[www.asce.org](http://www.asce.org)

## February 2012

1-800-548-ASCE

### PRESIDENT'S MESSAGE

On Friday, February 3, we held our annual student ski day at Sugarbush. The event featured a full day of skiing, pizza lunch with a talk by Shawn Kelley, our regional governor, and new this year, fun ski races with great prizes. The event was very well attended by students from Norwich and UVM, as well as several professionals. We would especially like to thank our sponsors Collins Engineers and GeoDesign.

The week of February 20<sup>th</sup> is e-week. As such, several interesting events are scheduled. I would like to highlight a couple. First, Vermont ASCE will be releasing our first ever report on Vermont's Infrastructure. This release will take place at the Capitol Plaza Hotel on Tuesday, February 21. We are in the process of inviting legislators, in addition to the media. The report card provides an evaluation and grade for water, wastewater, roads, bridges, and dams in Vermont. All are welcome to attend the release. Copies of the report card will be available after the release on our website [www.vtasce.org](http://www.vtasce.org).

Second, is the e-week banquet. This event takes place on Friday, February 24<sup>th</sup> and features Brian Searles, Vermont Secretary of Transportation. The invitation for the banquet and an e-week brochure are attached.

On March 15, we will hold a dinner meeting with a structural theme, which we will co-host with the Structural Engineers Association (SEA-VT). The meeting will be held at UVM. The topic of the meeting is the Weidmann BM2 Upgrade in St.

Johnsbury, VT. The speaker will be Richard Dall, PE, SECB, LEED AP.

Richard will present an overview of the structural design challenges and solutions associated with the project. The project consists of a heavy industrial expansion adjacent to an existing operational manufacturing facility to house a replacement to the facilities existing press. Some of the major challenges for this project included subsurface conditions necessitating deep foundations, heavy storage loads on elevated floors, heavy forklift traffic on elevated floors and the support of a two million pound press. This should be an excellent presentation. The invitation is attached.

On April 18<sup>th</sup> we will be holding our annual past president's breakfast at the Capitol Plaza Hotel in Montpelier. Our featured speaker will be Greg DiLoreto, ASCE National president-elect. We will be honoring our past Vermont Section ASCE president's and we are very fortunate to have Greg join us to provide his vision for ASCE.

Respectfully,

Bernie Gagnon



## **2012 VT ASCE MEETING**

### **SCHEDULE**

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#### **February 20-24, 2012**

E-Week

Location: Various

#### **March 15, 2012**

Joint Meeting with Structural Engineers Society of Vermont

Location: UVM

Topic: Structural Aspects of Expansion of Industrial Facility

#### **April 18, 2012**

Location: Capitol Plaza, Montpelier

Topic: Past Presidents Breakfast

#### **May 10, 2012**

Annual Meeting

Location and Topic: TBD

## **MESSAGE FROM THE EDITOR**

The Green Mountain Civil Report is a monthly newsletter written in collaboration with the Vermont sector of the American Society of Civil Engineers.

Our goal is to keep you informed with the latest news and events in the field. If you have news you would like to share, please contact us with your announcements so we can add them to the upcoming edition.

The newsletter is generally distributed via email. If you would like to receive a hard copy, or you are not receiving the E-Newsletter and would like to, please contact Laura Ripley (Newsletter Editor) at [vtascenewsletter@gmail.com](mailto:vtascenewsletter@gmail.com) or any of the other officers listed at the end of the newsletter.

## **VT ASCE REPORT CARD**

As part of an initiative started by our past president, Jason Booth, VT ASCE is working on the first of its kind Report Card on Vermont's Infrastructure. This

Report Card will follow the format and content of the highly successful National ASCE Report Card on the Nation's infrastructure. The working committee has completed issue briefs for each of the categories being reviewed for the Vermont Report Card and National has commented on the Final drafts. We will be releasing the report card on February 21, 2012 at the Capitol Plaza in Montpelier at 11:00.

## **UVM ASCE STUDENT CHAPTER**

The most recent event that the UVM chapter participated in was the Annual Vermont Ski Day, held at Sugarbush on February 3, 2012. UVM students joined the professional members for a day of skiing and a lecture by Shawn Kelley, an Associate at GeoDesign Inc. The lecture reviewed ASCE membership, the "Raising the Bar" initiative, continuing education proposals, sustainability awareness, and report card updates.

The Steel Bridge Competition is continuing their progress, most recently ordering materials and beginning construction of their proposed design.

As part of the upcoming E-Week event, UVM ASCE will volunteer for Engineer's Day activities with middle and high school participants. The Vermont International Guard will host this event for the seventh year with the UVM College of Engineering and Mathematical Sciences (CEMS).

UVM ASCE will begin the admitted students tour days for CEMS in the month of February. This involves facility tours, an introduction to student life at UVM, and a question and answer period.

To find out more about the UVM student chapter, go to <http://www.cems.uvm.edu/~asce/>.



## **NORWICH STUDENT CHAPTER**

### **Annual High school Popsicle Competition**

Every year Norwich University's ASCE Chapter hosts a Popsicle bridge competition for high school students around Vermont. This year, two-dozen teams entered the competition. The students are given the specifications in the fall, and construct bridges from popsicle sticks, Elmer's glue and floss. The bridges are judged on aesthetics, size requirements, weight, load capacity and many other various factors. The students arrive early in the morning for coffee and donuts while the Norwich students judge the bridges for conformance to the supplied specifications. The bridges are then load tested. The deflection of the bridges is determined with a load of 100 pounds applied, and then the bridges are loaded to failure. The students showed a great grasp of structural engineering, with one bridge holding over 3,400 pounds this year.

### **ASCE Student Competitions**

This year a team of 6 students are planning to compete in this years steel bridge competition held at The University of Massachusetts Amherst. The bridge is designed and its fabrication is well underway with the help of Dimension Fabricators of Scotia, NY through owner Scott Stevens.

Also, several students are planning to compete in the PCI Big Beam Competition, with great success in years past. Norwich University has placed first in its region the last two years, and have placed 2<sup>nd</sup> and 4<sup>th</sup> in the National competition. This competition could not be completed with out the assistance of J.P.Carrara & Sons Inc. Through the generosity of this firm, students are invited to the factory to assemble the formwork, rebar, and pre

stressed tendons under the guidance of their professional Staff.

Two teams of Norwich University Students plan to attend the Troitsky Bridge Competition in Montreal, Quebec. Using just Popsicle sticks, white school glue, and dental floss, the team will assemble pre-fabricated sections of the bridge in just two hours. The bridges will be judged on efficiency, originality and aesthetics.

Norwich ASCE in conjunction with the Norwich Society of Women Engineers (SWE) will be holding the Annual Girl Scout Day, March 24<sup>th</sup> at the University. The Girl Scouts are given the opportunity to earn a badge through activities including buoyancy, motion, electricity, fluid mechanics, soil properties, egg drop, water filters, and corn starch putty.

Norwich also had 15 students, faculty, and alumni compete in the "King of the Mountain" ski race held on February 3<sup>rd</sup> at Sugarbush. Norwich alumni Josh Gillman took the cup, with student chapter president Seth Knihtila taking second. Unna Lee rounded out the herd with a time of 26 minutes, however, her cup was lost during the race.



**NORWICH**  
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**Todd Lecture Series**

The Todd Lecture Series is named in honor of US Army retired Major General and President Emeritus W. Russell Todd, '50, and his wife, Carol, in gratitude for their dedicated service to Norwich University and the Northfield community. With this series, Norwich reaches out to bring important, significant lecturers to the University. The programs will always be free and open to the greater Vermont community as well as the Norwich student body.

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*Norwich University is a diversified academic institution that educates traditional-age students and adults in a Corps of Cadets and as civilians.*

*Norwich offers a broad selection of traditional and distance-learning programs culminating in Baccalaureate and Graduate Degrees.*

*The University was founded in 1819 by Captain Alden Partridge of the U.S. Army. It is the oldest private military college in the U.S. and the birthplace of our nation's Reserve Officers' Training Corps (ROTC).*

[www.norwich.edu](http://www.norwich.edu)

The David Crawford School of Engineering at Norwich University is pleased to welcome Professor Kevin Bennet as its 2012 Todd Lecturer.

Mr. Kevin E. Bennet is the Chairman of the Division of Engineering of the Mayo Clinic of Rochester, Minnesota, Assistant Professor of Neurologic Surgery and co-Director of the Neural Engineering Laboratory. His division, composed of 64 technical staff, is responsible for the development and application of new technology for clinical practice and research. Since the division is embedded within the Mayo Clinic, teams of physicians, surgeons, nurses and technical staff from different medical specialties are brought together with engineers to work collaboratively, develop devices to be tested, and utilize the solutions to cure human problems. Major development efforts include wireless physiological monitoring, minimally invasive surgery and deep brain stimulation.



Specifically, Mr. Bennet's research interests are the development of in vivo neurotransmitter detection technologies to explore the physiology of deep brain stimulation (DBS). To enhance the efforts of the Mayo Clinic in this area, he has developed collaborations with a number of laboratories, including NASA with nano technology and the National Institutes of Health (NIH) in functional MRI.

He has published over 18 peer reviewed articles, many abstracts and numerous international and national presentations. Mr. Bennet has served as an international visiting professor in Korea, Lebanon, Belgium and Australia.

Mr. Bennet joined the Mayo Clinic in 1990 with current and past appointments as Chair of Strategic Alliances, Vice Chair of Information Technology Standards & Architecture, Pharmacy and Therapeutics Committee, Medical/Industry Relations Committee as well as chair and membership in various workgroups and taskforces. He has also served as a reviewer of *Mayo Clinic Proceedings* and the NIH Small Business Innovation Research program.

He has over 30 years of experience in technology development with organizations including W.R. Grace & Co., Exxon International and Amoco Chemicals. He has been a consultant to the National Institutes of Health and served on NIH site visit teams. He holds patents concerning semiconductor and optical technology and has founded several technology-based companies.

Mr. Bennet received a Bachelor of Science degree in Chemical Engineering from the Massachusetts Institute of Technology and a Masters of Business Administration from the Harvard Business School.

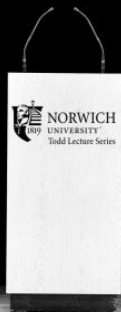
## TODD LECTURE SERIES

Spring 2012

Mr. Kevin E. Bennet

Chairman, Division of Engineering  
Mayo Clinic

Thursday, February 23, 2012  
7:00 p.m.  
Dole Auditorium



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newsletter**

See attached flyer

**II. JOB POSTING in VTASCE newsletter.**

See attached flyer

**III. CELL PHONE DONATION**

Consider donating your old cell phone to the ASCE VT SECTION. We will take your phone and turn it into cash and use it for our ASCE VT Section. Please bring your cell phone to our next meeting.

**UPDATE YOUR CONTACT  
INFORMATION**

The Vermont Section of ASCE depends on its membership to update their member information with ASCE National. Please make sure ASCE has your latest contact information by calling 1-800-548-ASCE (2723)

**ATTENTION VT ASCE MEMBERS**

The Vermont Section is looking to fill the Vermont Technical College Practitioner Advisor Position. This position is important to the student chapter and the engineering community. This position provides a link for the students to a world outside of academia. If you are interested in discussing this position please contact Jason Booth at jbooth@aeengineers.com

**ASCE Member Benefits!**

- FedEx discounts
- ASCE Memoirs
- Discounted Life Insurance (Visit the ASCE Website)

**CONTINUING EDUCATION  
WEBINARS FOR FEBRUARY 2012**

For more information on ASCE's webinars, go to  
[http://www.asce.org/conted/distancelearning/online\\_webseminars.cfm](http://www.asce.org/conted/distancelearning/online_webseminars.cfm)

Thu Feb 02 – Thu Feb 16	An Introduction to ASCE-7-10 Wind Loads – Three Part Series
Mon Feb 06	Sustainable Transportation: How Vancouver Achieved Success for the 2010 Winter Games
Mon Feb 06	Engineering Through Ethical Challenges
Tue Feb 07	Condition Evaluation of Existing Structures – Masonry and Wood
Tue Feb 07	Engineering Rainwater Collection and Case Studies for Sustainable Water Management
Wed Feb 08	Renovation of Pre-Engineered Buildings
Web Feb 08	An Overview of Geosynthetics and Their Major Applications
Thu Feb 09	Advanced Bridge Hydraulics with HEC- RAS
Fri Feb 10	Strengthening Concrete Buildings
Fri Feb 10	Traffic Impact Studies
Mon Feb 13 - Wed March 21	P.E. Structural Exam Review: 11-Part Series
Mon Feb 13	Specifying Lightweight Wood Trusses
Tue Feb 14 – Thu Mar 22	P.E. Civil Exam Review: 12-Part Series
Tue Feb 14	Stormwater BMPs: What Works, What Doesn't and What About Maintenance
Wed Feb 15	Avoiding Failures of Retaining Walls
Wed Feb 15	Improving Project Communication: Within and Outside of the Project Team
Thu Feb 16	Reducing Collisions at High Crash Locations
Fri Feb 17- Fri Mar 23	P.E. Environmental Exam Review: Six-Part Series
Fri Feb 17	Monitoring Project Deliverables, Budgets and Schedules: The Earned Value Method
Tue Feb 21	Practical Design of Multistory Shear Walls
Wed Feb 22	Vibration of Concrete Floors – Evaluation, Acceptance, and Control
Wed Feb 22	Quality: An Operational Approach for Your Projects

Thu Feb 23	Cold-Weather Stormwater BMPs That Work
Thu Feb 23	Improving Safety at Railroad Highway Grade Crossings
Fri Feb 24	Investigation and Repair of Fire-Damaged Framing
Fri Feb 24- Thu Mar 01	How to Plan Projects Effectively – A Two Part Series
Mon Feb 27	The Basics of Design and Rehabilitation of Foundations on Expansive Soils for Non-Geotechnical Engineers
Tue Feb 28	Improving Highway Safety: An Overview of Nine Proven Crash Countermeasures
Tue Feb 28	LRFD for Geotechnical Engineering Features: Earth Retaining Structures – Cut Walls
Wed Feb 29	Joints in Buildings
Wed Feb 29	Stormwater Management Alternatives for Small Commercial Sites

## **SMARTBRIEF BY ASCE**

ASCE SmartBrief is a FREE e-mail news service that summarizes the day's most important news as it relates to civil engineers. Each day, ASCE SmartBrief delivers:

- Links to stories that matter, selected from hundreds of top news sources.
- Summaries of articles relevant to you, handpicked by SmartBrief's editorial staff.
- Wireless functionality for mobile readers.
- The latest information from ASCE.

ASCE SmartBrief is available at no cost to you. Please visit [www.smartbrief.com/asce](http://www.smartbrief.com/asce) for information on how to sign up.

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*A note to professionals/employers:  
We would like to inform others about your current projects and plans. If you are interested in writing a short segment on your recent work, please contact Laura Ripley at [vtascenewsletter@gmail.com](mailto:vtascenewsletter@gmail.com) for more information.*

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## **JOB OFFERINGS**



Consistently ranked by CE News as one of the "Best Civil Engineering Firms to Work For," Vanasse Hangen Brustlin, Inc. (VHB) is an 850+person firm that provides comprehensive, integrated transportation, land development and environmental services from offices throughout the east coast. Engineering News-Record ranks VHB 82th of the Top 500 U.S. Design Firms and among the Top 50 Transportation Firms.

VHB is committed to providing a challenging, fun and rewarding work environment. Our staff enjoys opportunities to grow professionally and work on interesting projects. Our dynamic, people-centric organization focuses on our culture of collaboration, personal development, and developing lasting relationships both inside and outside of our firm. **VHB is immediately seeking to fill four positions in our No. Ferrisburgh, VT office: Highway Engineer**

The successful candidate should have 8-12 years of progressively responsible experience and have BSCE or equivalent and Vermont PE License. Responsibilities will include: roadway and bike/pedestrian design, traffic analysis, project management, client interaction, public presentation, and staff supervision and development.

Candidates should possess an understanding of completing transportation studies, final design developing contract plans, and implementing engineering standards/ procedures; intersection, roadway and traffic signal design; and the environmental/ development permitting process. Knowledge of InRoads, MicroStation, VT State Standards, highway capacity methodologies, and traffic analysis is preferred. Demonstrated excellence in oral presentation, technical writing, and communication skills are essential.

### **Site/Civil Design Engineer**

Must have BS in Civil Engineering with 3 to 6 years of experience; EIT required, PE is a plus; familiarity with VT permitting processes; Advanced AutoCAD skills are a must and LD Desktop/Civil 3D experience desired, HydroCAD and StormCAD skill are a plus. This position includes assignments throughout Vermont from initial scoping through construction documents for a wide range of land development projects.

Responsibilities include: Site layout and grading; stormwater design; utility design; coordination of required hearings and public meetings ;contract documents and construction specifications; engineer's estimates Excellent verbal, written and interpersonal communication skills; comfortable with working independently as well as on a team ;detail-oriented and quality focused.

### **Civil Engineering Technician**

Must have 4 -8 yrs experience with a demonstrated background of challenging civil and transportation engineering projects in VT. Technicians will be asked to perform all aspects of plan production and engineering design tasks as well as mentoring younger team members.

The position will require strong familiarity with the VTrans MicroStation CADD standards as well as experience using AutoCAD. The emphasis of work will be with our Bridge and Highway Engineering Groups along with support of our Land Development Team. Opportunity to join a dynamic organization and become a member of a growing team while working on high visibility transportation and municipal projects.

### **Environmental Scientist**

Must have at least 3 years of working experience in a professional/consulting environment; B.S. or M.S. in environmental science, natural resources, or a closely related field. Working knowledge of the stormwater and stream alteration regulations in VT. Must be familiar with and have applied the Vermont Stream Geomorphic Assessment Protocols; must have Rosgen Level I training at a minimum and proven experience developing plans for stream restoration projects that have been constructed or have been authorized for construction.

Responsibilities include: prepare federal, state and local stormwater and stream alteration permit applications; prepare and/or review technical reports; conduct construction oversight associated with environmental permit compliance and erosion prevention and sediment control (EPSC) plan implementation; conduct stream geomorphic assessments; design stream channel restoration using natural channel design principles; assist VHB engineers with culvert/bridge replacement projects; develop and implement monitoring plans for stream restoration projects; and develop supporting figures and mapping for various projects using GIS and/or CAD.

*If you are seeking an exciting opportunity with a successful, generational company, please apply on-line with your cover letter, resume and transcript. Please articulate in your cover letter why you would be a successful candidate as defined above.*

**View full job descriptions and apply on-line at: [www.vhb.com](http://www.vhb.com).**

**TOWN OF STOWE, VT  
ASSISTANT ENGINEER/PROJECT MANAGER**

The Town of Stowe, VT, a premier four season resort community, is seeking an Assistant Engineer & Project Manager in the Department of Public Works. The position is to provide technical assistance associated with the delivery of capital improvements projects and the operations and maintenance of the Town's public works infrastructure. This is a full-time salaried position with excellent benefits. The starting pay range is \$963 to \$1,143 per week, dependent upon qualifications and experience.

A job description outlining duties and responsibilities, qualifications and performance aptitudes required can be downloaded from our website @ [www.townofstowevt.org](http://www.townofstowevt.org). Qualified candidates should send a letter of interest summarizing their experience and qualifications relative to the requirements of the job description and a resume in confidence to: Town of Stowe, PO Box 730, Stowe, VT 05672 Attn: Harry Shepard, Director of Public Works, or email [recruit@townofstovermont.org](mailto:recruit@townofstovermont.org). Applications will be accepted until the position is filled, but scheduling of interviews will begin no later than **February, 17, 2012**. The Town of Stowe is an Equal Opportunity Employer.

## Company Directory



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*If your company has any job openings, please submit them to Laura Ripley, VT Section Newsletter Editor at [vtascenewsletter@gmail.com](mailto:vtascenewsletter@gmail.com) for a posting.*

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<p style="text-align: center;"><b>Kenneth J. Bisceglia, PE, CHMM</b>                  OFFICE MANAGER</p> <p style="font-size: small; text-align: center;"><i>planning, permitting,                  design, construction,                  operation, maintenance,                  design/build, &amp; equipment</i></p> <p>98 South Main Street                  Suite 2                  Waterbury, VT 05676                  tel: 802-244-5051                  fax: 802-244-8505</p>	<p style="text-align: center;"><b>Weston&amp;Sampson®</b></p> <p>cell-phone: 802-578-2451                  e-mail: <a href="mailto:biscegliok@wseinc.com">biscegliok@wseinc.com</a>  <a href="http://www.westonandsampson.com">www.westonandsampson.com</a></p>
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Under the appropriate category, please select the duration that you would like your company's advertisement to be published. For employment ads, please indicate the number of individual employment advertisements you would like to have published.

For employment ads, please submit a Microsoft Word document containing the ad and company logo. For company ads, please submit a business card in PNG or JPEG image format with dimensions of 280 x 160 pixels to ensure the best clarity. Submit ads to Laura Ripley, VT Section Webmaster at vtascenewsletter@gmail.com.

Please make checks payable to **VT-ASCE** and mail along with this sheet to:

Erik Alling  
c/o Stantec

**55 Green Mountain Drive  
South Burlington, VT 05403**

Company Ad			Employment Ad		
<input type="checkbox"/>	1 month	\$25.00	<input type="checkbox"/>	1 month	\$35.00
<input type="checkbox"/>	4 months	\$80.00	<input type="checkbox"/>	4 months	\$125.00
<input type="checkbox"/>	8 months	\$100.00	<input type="checkbox"/>	8 months	\$200.00
<input type="checkbox"/>	1 year	\$125.00	<input type="checkbox"/>	1 year	\$350.00

Number of Employment Ads Requested =

Totally invoice amount=

Company Ad Rate OR Employment Ad Rate x Number of Employment Ads

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