

The banner features a stylized landscape with green mountains, a blue river, and a bridge. The letters 'VT' are prominently displayed in the mountains. The text 'the Green Mountain Civil Report' is written in a large, bold, green font. Below this, the ASCE logo and the American Society of Civil Engineers seal are visible. The website URL 'http://sections.asce.org/vermont' is provided in blue text. At the bottom of the banner, the website 'www.asce.org' is on the left, 'October 2011' is in the center in a large green font, and '1-800-548-ASCE' is on the right.

the Green Mountain Civil Report

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www.asce.org **October 2011** 1-800-548-ASCE

PRESIDENT'S MESSAGE

We have an exciting fall program scheduled. Our October meeting will be held this Thursday, October 13, at Norwich University. This meeting is being co-hosted with our newly formed Geo-Institute and features what promises to be an excellent presentation by David Scarpato, PE on rock fall assessments. A complete description of the presentation and sign-up information is attached to the back of this newsletter. I hope to see you there.

The November meeting will be held on Thursday, November 3, at the Hotel Coolidge in White River Junction. This meeting is being co-hosted with the New Hampshire Upper Valley Section. Green Mountain Power will be providing a presentation on their green power initiatives including solar, wind, and smart meter technology. An informational sign-up flyer will be sent out separately later this month.

On December 8 we will hold our annual Holiday Social. The location is yet to be determined. There will not be a technical presentation. Instead we will be collecting toys for donation to Toys-for-Tots.

Respectfully,

Bernie Gagnon



2011/2012 VT ASCE MEETING

SCHEDULE

October 13, 2011

**VT ASCE Dinner Meeting in conjunction with
the Geo-Institute**

Topic: Rock Stabilization

Location: Norwich University

November 3, 2011

Joint Dinner meeting VT ASCE and NH ASCE

**Topic: Green Mountain Power- Green
Power Initiatives**

**Location: Hotel Coolidge, White River
Junction**

December 8, 2011

Vermont ASCE Holiday Social

Topic: Holiday Good Cheer

Location: TBD

January 2012

Annual Ski Day

Date and Location: TBD

February 2012

E-Week

Date and Location: TBD

March 8, 2012

**Joint Meeting with Structural Engineers Society
of Vermont**

Location and Topic: TBD

April 12, 2012

Location and Topic; TBD

May 10, 2012

Annual Meeting

Location and Topic:TBD

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 are incorporating their comments and expect to release the Final Reports in December at the State Capitol.

VTASCE FUND RAISERS AND COMMUNITY SERVICE EVENTS - PLEASE HELP SUPPORT YOUR LOCAL SECTION AND YOUR COMMUNITY!

**I. COMPANY DIRECTORY in VTASCE
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)
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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 or any of the other officers listed at the end of the newsletter.

CONTINUING EDUCATION **WEBINARS FOR September 2011**

For more information on ASCE's webinars, go to http://www.asce.org/conted/distancelearning/online_webseminars.cfm

Fri Oct. 07	PE Environmental Exam Review: Six Part Series
Fri Oct 07	Deterioration and Repair of Concrete
Tue Oct 11	Renovation of Steel-Framed Buildings
Tue Oct 11	Process of Signal Coordination
Wed Oct 12	Reinforced Masonry: Design and Construction
Thu Oct 13	Project Partnering: Principals, Techniques, and Benefits
Thu Oct 13 – Fri Oct 21	Load & Resistance Factor Design (LRFD) for Geotechnical Engineering Features, Complete Two-Part Series
Fri Oct 14	Traffic Control Devices
Mon Oct 17	Design of Wood Connections
Mon Oct 17	The Analysis and Quantification of Construction Delays
Tue Oct 18	Complying with the MUTCD: Traffic Signing for Horizontal Curves
Tue Oct 18	HEC-RAS Bridge Hydraulics
Wed Oct 19	Design of Masonry Shear Walls
Thu Oct 20	ASCE 7-10 Snow Load Provisions
Fri Oct 21	Analysis Assessment, and Feasibility of Roundabouts
Mon Oct 24	Renovation of Slabs on Grade
Tue Oct 25	Customizing Low Impact Design and Maintenance for Cold Weather Conditions
Wed Oct 26	Dealing with Difficult Behavior and Situations
Thu Oct 27	Preparing and Implementing Construction Site Storm Water Pollution Prevention Plans
Fri Oct 28- Fri Nov 04	The Modern Roundabout As A Traffic Signal Alternative – A Two Part Series
Mon Oct 31	Structural Thermal Bridging in the Building Envelope

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 for information on how to sign up.

UVM ASCE STUDENT CHAPTER



The above UVM Engineering students won the 1st place prize of the college division at the VSE Golf Tournament Sept 23rd. This event benefitted the BSE Education and Research Foundation Fund as well as scholarships for UVM, Norwich and VTC students.

The UVM ASCE student chapter consists of roughly 30 student members. Their involvement includes competing in the Concrete Canoe Competition, Steel Bridge Competition, volunteering for Irene relief, working with an afterschool 4-H program for middle schoolers, and various other fundraisers/volunteer work. To find out more about their club and the members, go to <http://www.cems.uvm.edu/~asce/>.

*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 for more information.*

JOB OFFERINGS



BRIDGE ENGINEER

A minimum of 5-10 years experience in the evaluation, planning, design, and construction administration of Federal, D.O.T., and municipal bridge projects and programs. Experience with AASHTO, NHDOT, and VTrans standards a plus. P.E. required or ability to obtain. Position available in Nashua, N. H., Randolph or Williston, VT.

Competitive salary; excellent fringe benefit program; ESOP Company.

Visit our website at <http://www.dubois-king.com> for more information about advertised positions and DuBois & King, Inc.

Send resume to: DuBois & King, Inc., P.O. Box 339
Randolph, Vermont 05060 Fax: 802.728.4930
Email: rgoodall@dubois-king.com

-EEO

4) SENIOR DAM ENGINEER/PROJECT MANAGER

DuBois & King, Inc., a full service consulting engineering firm is seeking a Senior Dam Engineer / Manager with approximately 5 to 15-years (or more) of experience. This is a full time / full benefits senior engineering position in our busy and growing Dam Engineering Group, which is located in our Randolph, Vermont office.

Duties include (but not limited to) the safety inspection, evaluation, planning, design, plan development, technical specification preparation of contract documents, and construction inspection of dam projects. Technical experience in geotechnical / foundations, structural concrete, earth embankments is required. Related experience in hydrology & hydraulics, permitting, hydroelectric facilities is a plus.

Experience with applicable dam safety design criteria and state / federal regulations, client interaction, meetings, construction cost estimating, AutoCad is desirable. VT / NH P.E. required or able to obtain within 6 to 12-months is required.

Send resume and salary requirements to:

DuBOIS & KING, INC.
28 North Main Street
P.O. Box 339
Randolph, VT 05060
802-728-4930 -Fax
Human.Resources@dubois-king.com
ESOP Company
E.O.E.

3) SENIOR MECHANICAL ENGINEER

Responsible for supervision and direction of daily activities of Mechanical Engineering Department of firm's Building Services Division located in Williston, Vermont. Includes project planning, design and AutoCAD drawing, management and inspection phase duties in wide range of mechanical engineering related functions for commercial, industrial, institutional, healthcare, recreational and municipal projects. Project management responsibilities include client relations, project scheduling, budget and contract administration; key participation in developing project workload for Mechanical Engineering Department. PE required. LEED AP preferred. Commissioning a plus.

Competitive salary; excellent fringe benefit program; ESOP Company.

Visit our website at <http://www.dubois-king.com>

Send resume to: DuBois & King, Inc.
P.O. Box 339
Randolph, Vermont 05060
Fax: 802.728.4930
Email: rgoodall@dubois-king.com

5) SENIOR PROJECT MANAGER/DEPARTMENT MANAGER

DuBois & King, Inc. is seeking to fill a key a leadership position of a dynamic and growing environmental & water resources team consisting of planners, engineers and scientists in our Randolph office. The position involves the supervision and direction of daily activities of the firm's Environmental Documentation and Natural Resources Department and also for strategic future department planning and positioning.

Key activities within the department include (but not limited to): NEPA, Act 250 and Act 248, local permitting, stormwater analysis, design and management, river restoration, fluvial geomorphology, wetland identification and mitigation, hydrology & hydraulics and much more!

Key position responsibilities include: Project management, client relationships, scheduling, budget and contract administration, staff supervision / mentoring and training, meetings, public presentation and much more!

Professional registrations preferred include one of the following (or a combination); P.E., LEED AP, CFM and AICP. Company leadership opportunities exist for the right person. Competitive salary, excellent fringe benefit program; ESOP Company. EEO

If your company has any job openings, please submit them to Laura Ripley, VT Section Newsletter Editor, at vtascenewsletter@gmail.com for a posting.

Company Directory



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Principal

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Brad Aldrich, P.E., F.NSPE

President



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Essex Jct., VT 05452

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James V. Errico, P.E.
Senior Principal
Manager, Northern New England Division



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VTASCE Newsletter/Website Ad Rate Form

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 Newsletter Editor at lripley@uvm.edu

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

Jessica Clark
 c/o Milone & MacBroom, Inc.
 1233 Shelburne Road, Suite 150
 South Burlington, VT 05403

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<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

Company Name _____

Address _____

Contact Person _____

E-mail _____

Date _____

Requested Newsletter Dates: Jan, Feb, Mar, Apr, May, Summer (June-Aug), Sept, Oct, Nov, Dec
 (Please circle.)



GEO-
INSTITUTE
Vermont Chapter



VT ASCE SECTION MEETING
VT GEO-INSTITUTE CHAPTER MEETING
WHERE: MILANO BALLROOM
NORWICH UNIVERSITY, NORTHFIELD, VT
WHEN: October 13, 2011
Bar opens at 5:30 PM
Dinner at 6:15 PM

SPEAKER: DAVID SCARPATO, PE
Senior Rock Mechanics Engineer
Haley & Aldrich, Inc
Manchester, NH

Topic: **Rockfalls in New England**

ASCE and G-I Members: \$35
ASCE Life Members: Gratis
ASCE Student Members: \$15

One PDH credit will be given for attendance
Send Reservations by October 10 to John Stevens at
stevens@norwich.edu



Rockfall Assessment and Mitigation in New England

David J. Scarpato, P.E., M. ASCE Haley & Aldrich, Inc. 340 Granite Street, 3rd Floor
Manchester, NH. 03012 (603) 361-0397 DScarpato@HaleyAldrich.com

A rockfall is a catastrophic process of slope movement that occurs as a direct result of the influence of gravity on a rock mass; and as with any type of mass movement, rockfalls can be very dangerous (Morgan, 1997). Hoek (1996) states that the number of people killed by rockfalls tends to be of the same order of magnitude as the people killed by all other forms of slope instability combined. Rockfalls not only present a hazard to people, but can impact construction and mining operations, infrastructure (e.g. power generation facilities, bridges, roadways), and local economies. Evaluation of the potential hazard of rockfalls is often overlooked due to overly-stringent up-front limitations on scope and budget, heavy vegetation, difficult access, and property rights issues. With an adequate engineering geologic field investigation and a rockfall management plan, these hazards can be identified, mitigated, and managed over the lifetime of a rock slope. After a brief introduction to the fundamentals of rockfall mechanics, this presentation will describe a variety of environments where rockfalls could present adverse impacts during construction and operations, and how these potential impacts can be reliably identified, remediated, and monitored in order to reduce liability for the project Owner, Contractor, and Engineer. Similar to rockfall, the issue of icefall occurrence will also be briefly discussed given recently increased awareness of its significance. Select relevant case histories and photos from New England will be incorporated throughout the presentation to highlight specific events and important points.

David J. Scarpato, P.E., is a Senior Rock Mechanics Engineer and Project Manager with Haley & Aldrich, Inc. He received a BS in environmental geology from Northeastern University and MS degrees from both Radford University (Engineering Geology) and University of Nevada - Reno (Geological Engineering). He provides rock engineering design and construction support services to clients in the mining, infrastructure development, and energy industries. His specific areas of expertise include surface and underground rock support design, rock mass characterization, rock excavation technique, and geologic hazards assessment.