



President's Message

I hope everyone is having a great summer. I am very excited to kick off my term as President of our Section. Since officially becoming President I have been very busy with all things ASCE related. You may have even received a few emails from me in the past couple of months. I have been working hard to transition into the Presidential role with a lot of assistance from Shawn Kelley, your Past-President.

VTASCE has experienced considerable growth since Shawn became president and I would like to focus on that effort and continue to grow our section. This year we have the largest Board of Directors in the history of the Vermont Section. We even have to rewrite our Bylaws to provide clarification for all of the new positions. This is incredibly exciting because the more people we have on board, the more value we can provide to our members. If you would like to become more involved, even if it is a minor role, we would love to have you fill an active role. There are so many opportunities to help, especially with something you feel strongly about. Currently, our Section does not have active chapters for any of the National Institutes, such as the Geo-Institute, the Construction Institute, Architectural Engineering Institute, Structural Engineering Institute, etc. If you would like to take an active role in our Section and you are passionate about one of these disciplines, we could start an active chapter in Vermont.

Nationally, there has been a push for diversity in ASCE. I am currently the official contact person for our Section regarding information from National. I have posted information and updates about diversity programs to the Diversity Outreach Program Section of this newsletter.

As far as Vermont news is concerned, I have a few updates for everyone. First of all, there is a new home for Vermont Orthophotography. Starting July 1, 2009, the VCGI Imagery Program began distributing orthophotos for free via download from their website: www.vcgi.org/dataware. More details are attached at the end of the newsletter.

For those of you that couldn't make it to our last meeting, Mike Barsotti, CWD's Director of Water Quality and Production, gave a tour and presentation of the Champlain Water District's Peter L. Jacob Water Treatment Facility. More information about this speaker and facility is included in the VT ASCE Section New section of this newsletter and pictures from the tour will be uploaded to the website shortly.

We also swore in the new VTASCE Board of Directors at this meeting. A brief bio of the new Board of Directors members is attached at the end of this newsletter and contact information for all of the board members is included in the end of the newsletter.

Our next meeting will be on September 25th at the VSE Annual Golf Outing, which VTASCE co-sponsors annually. More information about this and the October Meeting, which is currently in the planning stages, is provided in the VTASCE Meeting section of this newsletter. Also, make sure to check out the Upcoming Events section at the very end of this newsletter to see what other societies and other ASCE chapters are doing.

Lastly, it is with my sincerest regret that I inform you that Jean-Guy Beliveau, a former President of VTASCE and professor at the University of Vermont, lost his fight with cancer on Friday July, 17, 2009. I was fortunate enough to work with him on the Board of Directors of both VSPE and VTASCE, as well as have him as my

mentor and academic advisor while studying at UVM. He was an incredible role model and will be missed greatly. A tribute will be held on Friday, September 18, 2009 in the Ira Allen Chapel at 2:00 p.m. More information about the tribute and about the memorial fund established in his honor is provided in the VT ASCE Section News section of this newsletter.

Hope to see you all at our first official dinner meeting in October.



Respectfully,
Amanda

2009/2010 ASCE Meeting Schedule

September 25, 2009

VSE Golf Tournament

Location: Barre Country Club, Barre VT
See the VTASCE Meeting section of this newsletter for more information.

October 28, 2009 (tentative)

VT ASCE Meeting

Topic: Greener Design Through Smarter Material Specification

Location: Burlington, VT (TBD)

November 12, 2009 (tentative)

NHASCE/VTASCE Joint Meeting

Topic: TBD

Location: TBD

January 31, 2010

VTASCE Meeting

Topic: Sugarbush Base Lodge Redevelopment

Location: Sugarbush Ski Resort, Warren, VT

September Meeting

Vermont Society of Engineers
9th Annual Fall Golf Classic
Scholarship Tournament
Sponsored by Stantec, Inc.

Date: Friday, September 25, 2009

Time: 10:30 am to 8:00 pm

Evening Event: Dinner and Tournament Awards

Times: 10:30 Registration
10:30-11:00 Range will be open
11:00-11:45 Lunch
12:00 Shotgun Start, Four Person Scramble (Best Ball)
5:00 Cocktail Reception
6:00 Dinner and tournament Awards

Location: Barre Country Club - Barre, VT

Cost: \$85 per person, \$40 per student

Reservations: Registration Forms on the website or contact Carolyn Carlson at carolyn.carlson@state.vt.us

Website:

http://vsoc.org/Golf_Tournament.html

Other:

The cost is \$85 and it includes the following:

- GreensFees
- Cart
- BBQ Lunch (Sponsored by VHB Pioneer)
- Buffet Dinner
- Golfer "Tee Bag"
- Team and Individual Prizes

Contests and Prizes

- Closest to the Pin
- Longest Drive
- Hole-in-One
- Highest combined age/best score

Silent Auction

- Foursome at Vermont National Golf Course
- Ipod Touch
- Overnight at the Inn at Essex
- UVM Hockey Tickets
- Golf Balls
- Vermont Teddy Bear
- Cabot Cheese Gift Baskets
- and much more.....

RSVP Deadline: by September 19th, 2009

VT ASCE Section News

VTASCE FUND RAISERS - PLEASE HELP SUPPORT YOUR LOCAL SECTION!

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) or visiting www.asce.myprofile.org to update your record.

MESSAGE FROM THE EDITOR

The Green Mountain Civil Report is the newsletter of the Vermont Section of the American Society of Civil Engineers. This newsletter intends to keep you up-to-date on the activities of civil engineers around our state.

Please feel free to contact us with your announcements. We would be happy to include them in our newsletter. The newsletter is typically distributed via email, however if you would like a hard copy or if you are not receiving the E-Newsletter and would like to, please contact Benjamin D. Heath (Newsletter Editor) at bheath@dlhce.net or any of the officers listed at the end of the newsletter.

MAY MEETING INFORMATION

There was a tour of the Champlain Water Districts (CWD) award winning Peter L. Jacob Water Treatment Facility and an informational presentation of CWD's role in providing clean drinking water to twelve (12) municipal water systems throughout Chittenden County. CWD water is of the highest quality and safely serves CWD's 68,000 customers. The CWD treatment facility received the First-in-the-Nation "Excellence in Water

Treatment Award" under the National Partnership for Safe Water program of which the United States Environmental Protection Agency (USEPA) is a partner agency. CWD has maintained this "pinnacle of excellence" status each year since 1999 following an extensive annual review process. At this time, only five (5) additional water treatment facilities across the country have also now attained this public health protection optimization level.

CWD's water source originates 2500 feet off shore at a depth of 75 feet in the cold, deep underwater canyon of Shelburne Bay, well away from any potential sources of contamination. This high quality source is then filtered at the treatment facility. The state-of-the-art treatment process removes the natural clay and diatoms from the source water using adsorption clarification pretreatment, followed by deep-bed multi-media filtration. Treatment efficiency is continuously measured by on-line laser particle counting technology. In addition, approximately 40% of the natural organic material (i.e. diatoms, plankton) is also removed during filtration, as measured continuously by on-line analyzers. CWD then uses disinfection (as required by USEPA and the Vermont Water Supply Division) as a necessary additional barrier protective of the public health. The disinfection applied at CWD consists of two stages – primary disinfection with free chlorine and secondary disinfection with monochloramines.

Mike Barsotti has been the Director of Water Quality & Production for the Champlain Water District, South Burlington, Vermont since 1992. In this role he directs plant operations, source water, and system-wide compliance. Mike also was the Partnership Technical Coordinator for the utility team that obtained the 1st Partnership for Safe Water Phase IV "Excellence in Water Treatment Award," and "Ten-year Excellence in Water Treatment Award" in the nation. He is also Program Effectiveness & Assessment Committee (PEAC) Vice Chair for USEPA Regions 5 & 8. Mike has received the New England Water Works Association (NEWWA) Operator's Meritorious Service Award, Water Works Leadership Award, and Past President's Award.

JEAN-GUY L. BELIVEAU TRIBUTE

A UVM tribute will be held to honor Jean-Guy Béliveau on Friday, September 18, 2009 in the Ira Allen Chapel at 2:00 p.m. Béliveau taught structural engineering at the University of Vermont College of Engineering and Mathematical Sciences (CEMS) from 1985 to February 2009 when he retired. He lost his courageous fight with cancer and passed away peacefully on Friday, July 17, 2009 at the Vermont Respite Home in Williston, Vermont. Prior to coming to UVM, Dr. Béliveau taught

at l'Université de Sherbrooke, Quebec, Canada. He obtained his bachelor's degree in Civil Engineering from the University of Vermont in 1968, and a doctorate in Civil Engineering from Princeton University in 1974. He was commissioned as a Second Lieutenant in the ROTC in the U.S. Army in 1968, and frequently did consulting work for the military in his later years.

During his tenure as faculty at UVM, Jean-Guy served as chair of the Department of Civil Engineering and advised graduate and undergraduate students throughout his career both in Canada and the United States. He was a licensed professional engineer in Canada and the U.S., with over 60 technical publications, 20 journal publications, and more than 20 technical reports.

Jean-Guy received the highest honor as "Fellow" by The American Society of Civil Engineers (ASCE). His service impacted teachers, educators, engineers, and professionals as he served as ASCE Vermont Section President, and as the Vermont State Coordinator for MATHCOUNTS- a nationwide middle school math competition.

In remembrance of Dr. Jean-Guy Beliveau funds may be donated to support:

The "Jean-Guy Beliveau Memorial Fund" for UVM CEMS Senior Experience in Engineering Design (SEED). Donations should be sent to: Jean-Guy Beliveau Memorial Fund and mailed to UVM, 411 Main Street, Burlington, VT 05405., OR

The "NSPE Dr. Jean-Guy Béliveau Scholarship Fund" to be awarded to a student of engineering going to an ABET Engineering College or University. Make checks payable to: "Béliveau NSPE Scholarship Fund" and mail to: NSPE: VSPE, c/o Forcier Aldrich & Assoc., 6 Market Place, Essex Junction, VT 05452

Civil Engineering
Companies/Univ./Societies in
Vermont:
News and Announcements

ICC BUILDING SAFETY
ASSOCIATION OF VERMONT -

STRATEGIC PLANNING &
ORGANIZATIONAL MEETING

The ICC Building Safety Association of Vermont's website is continually updated to provide its members and guests with the latest information related to building life and fire safety information and educational events. Please visit their website at <http://www.buildsafevt.org/> or contact Rob Pickett at robpickett@vermontel.net for more information.

ASCE National
Information/News

DIVERSITY OUTREACH PROGRAM:

Gender Differences at Critical
Transitions in the Careers of Science,
Engineering, and Mathematics Faculty

Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty presents new and surprising findings about career differences between female and male full-time, tenure-track, and tenured faculty in science, engineering, and mathematics at the nation's top research universities. Much of this congressionally mandated book is based on two unique surveys of faculty and departments at major U.S. research universities in six fields: biology, chemistry, civil engineering, electrical engineering, mathematics, and physics. A departmental survey collected information on departmental policies, recent tenure and promotion cases, and recent hires in almost 500 departments. A faculty survey gathered information from a stratified, random sample of about 1,800 faculty on demographic characteristics, employment experiences, the allocation of institutional resources such as laboratory space, professional activities, and scholarly productivity.

This book paints a timely picture of the status of female faculty at top universities, clarifies whether male and female faculty have similar opportunities to advance and succeed in academia, challenges some commonly held views, and poses several questions still in need of answers. This book will be of special interest to university administrators and faculty, graduate students, policy makers, professional and academic societies, federal funding agencies, and others concerned with the

vitality of the U.S. research base and economy. This new report by the National Research Council is available for purchase at: http://www.nap.edu/catalog.php?record_id=12062#description

Generational Diversity: Making Room for the Gen Xers and Millennials!

Generational diversity has never been such a hot topic... until now! Gen Xers and Millennials are moving in and changing the rules of the game in almost every work setting! Young professionals between the ages of 22 and 42 have jumped into the workforce with high levels of confidence and self esteem; they're optimistic, willing to express their ideas and opinions, and they aren't afraid to critique the way things have been done. Let's face it, Gen Xers and Millennials are shaking things up!

While many Gen Xers and Millennials have been heralded for helping companies maximize their bottom lines, some have been stopped cold in their fast-moving tracks by stereotypes fueled by miscommunication and sometimes resentment by those who feel that young professionals are impatient and less loyal to their companies and their profession.

Creating a space to build understanding and effectively manage these differences can either make or break opportunities for positive workplace relationships.

Talk about real generational differences and what your Section or Branch is doing to effectively manage emerging trends... like the use of social media! Many of you have very active facebook and Flickr accounts! Let's hear about it. Read on at: <http://blogs.asce.org/prblog/?p=207>

YOUNGER MEMBER GROUP

The Committee on Younger Members is pleased to provide you the Fall Issue which may be accessed at http://www.asce.org/files/pdf/inside/Issue67_Fall2009.pdf

Most of you should be able to access the Younger Member Newsletter by using Adobe Acrobat Reader* with the click of your mouse. However, if you should experience any problems, please feel free to contact Nancy Berson at nberson@asce.org or at 703-295-6010. *To download a free copy of Adobe Acrobat Reader, use this website: <http://www.adobe.com/products/acrobat/readstep.html>

BOK EXPERIENTIAL FULFILLMENT COMMITTEE FORMING- RECRUITING PRACTITIONERS INTERESTED IN PRE-LICENSURE EXPERIENCE

ASCE's Committee on Academic Prerequisites for Professional Practice (CAP³), the group charged with implementing ASCE Policy Statement 465, is organizing the Body of Knowledge Experiential Fulfillment Committee (BOKE³FC). This committee will work to create pre-licensure experience guidelines that are supportive of the expectations of Second Edition of the Body of Knowledge (BOK²), and which evolve into regulatory mechanisms in engineering licensure.

These experiential guidelines should complement and supplement the outcomes fulfilled through the formal educational process through "B + M/30" (baccalaureate plus the master's or approximately 30 credits of coordinated graduate or upper level undergraduate engineering credits). The new BOKE³FC will be charged to establish these experience guidelines. Key references will be the *Vision for Civil Engineering in 2025* and the *Civil Engineering Body of Knowledge for the 21st Century* (2nd Edition).

CAP³ is interested in attracting civil engineering practitioners from a diverse cross-section of the engineering profession — especially individuals involved with the development of engineer interns (EI) towards professional licensure. Up to ten individuals will be selected as full members of this new committee -- and up to twenty other individuals will be selected as active correspondents. This effort will commence in December 2008 and finish no later than October 2010. The time and work commitment is considerably more than the average ASCE or professional committee. Interested members are urged to review the draft charge of the committee – and other documents related to the implementation of ASCE Policy 465 posted at asce.org/raisethebar. An application form for committee membership is also posted to this website – and must be returned to ASCE no later than Oct. 31. It is anticipated that the application pool will be much larger than the authorized size of the committee. Questions regarding the committee should be sent to Monte Phillips, Chair of BOKE³FC (mlphillips@unitelc.com); Jeffrey Russell, Chair of CAP³ (russell@engr.wisc.edu); or Tom Lenox, ASCE Senior Managing Director (tlenox@asce.org).

CONTINUING EDUCATION WEBINARS (September 2009)

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

Sept. 17	Renovation of Wood Trusses
Sept. 18	Sustainable Stormwater Hydrology: Concepts to Reduce Hydrologic Footprint
Sept. 18	Design of High-Rise Steel Structures: The Basics
Sept. 22	Wind and Seismic Retrofit of Masonry Buildings
Sept. 22 – Dec. 3	The Executive Education Livecast Series - Learn New Leadership Skills to Grow Your Business in These Challenging Times
Sept. 23	Wind and Seismic Retrofit of Steel-Framed Buildings
Sept. 24	Designing Streets for Residential Subdivisions
Sept. 25	Bridge Scour Computations With HEC-RAS
Sept. 28	Route Planning and Street Operations of Light Rail Systems **DATE CHANGE**
Sept. 29	Minimizing the Effects of Shrinkage in Wood Structures
Sept. 30	Investigation and Repair of Fire-Damaged Framing

LIQUID ASSETS

Liquid Assets is a public media and outreach initiative that seeks to inform the nation about the critical role that our water infrastructure plays in protecting public health and promoting economic prosperity.

Combining a ninety-minute documentary with a community toolkit for facilitating local involvement, *Liquid Assets* explores the history, engineering, and political and economic challenges of our water infrastructure, and engages communities in local discussion about public water and wastewater issues.

Visit <http://liquidassets.psu.edu/index.html> to view the trailer of this excellent program.

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.

ASCE GOVERNMENT RELATIONS

KEY CONTACT PROGRAM

The ASCE Key Contact Program provides busy civil engineers with opportunities to get involved in public policy activities.

Joining is easy! Visit <http://www.asce.org/govrel> and click on "Key Contact Program" to complete the online registration form. Brochures and additional information materials are available to distribute at Section and Branch meetings and gatherings. Contact Leslie Nolen, ASCE's Senior Manager of Grassroots and State Government Relations, at lnolen@asce.org or 202-789-7846 for more information.

ASCE'S INTERNET ADVOCACY WEBSITE

(<http://www.asce.org/pressroom/publicpolicy/advocacy.cfm>)

An easy way to connect with your legislators to...

- Send your federal or state representative a message on current civil engineering legislation.
- Learn about issues and bills affecting civil engineering that are active in congress and your state legislature.
- Track how your U.S. Representative and Senators voted on key ASCE bills.

UPCOMING EVENTS

ENERGY AND SUSTAINABILITY IN GEOTECHNICAL ENGINEERING

Boston Society of Civil Engineers Section Geo-Institute Presents the above titled One-Day Seminar on Saturday

October 3rd, 2009. See the attachment at the end of this newsletter for all other information and directions on how to register.

palmer@ecs.umass.edu, Voice: 413 545 2508, Fax: 413 545 2840

INNOVATIONS IN EROSION AND SEDIMENT CONTROL

The International Erosion Control Association Northeast Chapter is pleased to announce the 2009 Annual Conference and Trade Exposition titled above on October 27-29 in Hartford, CT. Please visit the website for more information at:

<http://www.ieca-nchapter.org/nec09.html>

Or contact: Andrea Wright, NE IECA VT Rep., 802-828-3507, 802-488-0392

2010 WORLD ENVIRONMENTAL & WATER RESOURCES CONGRESS

<http://content.asce.org/conferences/ewri2010/>

The American Society of Civil Engineers' Environmental & Water Resources Institute invites you to the 2010 World Environmental & Water Resources Congress in Providence, Rhode Island, May 16-20, 2010.

The Congress Steering Committee is putting together a program that is intellectually and professionally stimulating as well as FUN. The program will include outstanding plenary sessions and technical presentations that address the Challenges of Change that we as a society are facing. It will also be the site of our annual committee meetings and offer fun social events that allow us to renew old friendships and make new ones.

The World Environmental & Water Resources Congress is an important opportunity for professionals in the environmental and water fields to convene and focus on topics of the day. This year's technical program focuses on the Challenges of Change. It is imperative that the environmental and engineering community take a leadership role in addressing the changes that are so prevalent in today's society, whether they be technical, economic, social, environmental or political.

For more information contact: Dr. Richard N. Palmer, Department Head and Professor Civil and Environmental Engineering, 222 Marston Hall, University of Massachusetts, 130 Natural Resources Road, Amherst, MA 01003-9293,

2009/2010 ASCE VERMONT SECTION OFFICERS

Past President: Shawn P. Kelley, Ph.D., M. ASCE (skelley@geodesign.net)

President: Amanda Hanaway-Corrente, AM ASCE (amanda.hanawaycorrente@stantec.com)

President-Elect: Jason R. Booth, P.E., M. ASCE, (jbooth@forcieraldrich.com)

Treasurer: Jessica Clark, M. ASCE (jessicac@miloneandmacbroom.com)

Secretary: Bernie Gagnon, P.E., M. ASCE (bgagnon@shelburnevt.org)

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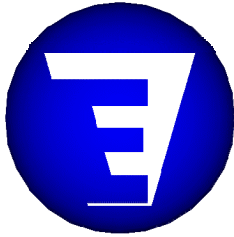
Job Offerings



1)

Geotechnical Engineer

GeoDesign, Inc. is seeking applicants for geotechnical engineering opportunities in VT and CT. Positions include internships and full-time assignments. Visit our website at www.geodesign.net for company contact information.



2)

Engineering Ventures, Inc. Civil/Site and/or Structural Project Managers & Engineers

Progressive engineering firm seeks experienced, creative engineers to become part of a highly reputable, local and growing firm engaged in a wide range of high quality private and public design projects. Positions in Burlington, Vermont and Lebanon, NH. Submit letter of interest and resume to: trishd@engineeringventures.com or fax to 802-863-6306



3)

Structural/Bridge Design Engineer

Consistently ranked by CE News as one of the "Best Civil Engineering Firms to Work For," Vanasse Hangen Brustlin, Inc. (VHB) is a 900 person firm that provides transportation, land development and environmental services from offices throughout the East Coast. VHB is committed to providing a challenging, fun and rewarding work environment. Our staff enjoys opportunities to grow professionally and work on interesting projects. We focus on a culture of collaboration, offer continuous personal development opportunities, and develop lasting relationships inside and outside of the firm.

VHB's Vergennes, VT office has an immediate opening for an experienced structural/bridge engineer.

Candidates must have 4-7 year experience and will assist with task management, project management, conceptual and final design of bridges and roadways, plan production, and staff supervision/development. Individuals must have a Bachelor's degree in civil engineering and knowledge of bridge and roadway design standards and principles (VT Agency of Transportation experience preferred). A PE is desired but not required. MicroStation and/or AutoCAD experience is strongly preferred. Individual must be willing to work in a collaborative team environment, and have demonstrated an ability to communicate effectively verbally and in writing.

VHB is proud to be an Equal Opportunity/Affirmative Action Employer.

Please apply on-line at www.vhb.com

4)

 <p style="text-align: center;">Vermont * New Hampshire * Maine</p> <p style="text-align: center;"><i>CLD offers competitive salary, top flight benefits, and a great work environment, full of opportunity, challenge and reward!</i></p> <p><u>Interested candidates:</u> Contact Lisa King at CLD Consulting Engineers 540 Commercial Street, Manchester, NH 03101 Or via e-mail to lisak@cldengineers.com</p>	<p>QUALITY EXPERIENCE VALUE</p> <hr/> <p>EXPERIENCED PROFESSIONALS NEW GRADUATES</p> <p>We are always interested in hearing from top-notch, talented candidates interested in future opportunities!</p> <p>While our current staffing needs are being met, please let us know if you are interested in future opportunities!</p>
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5) **Senior Traffic Engineer – Vergennes, VT**

Consistently ranked by CE News as one of the “Best Civil Engineering Firms to Work For,” Vanasse Hangen Brustlin, Inc. (VHB) is a 900 person firm that provides comprehensive, integrated transportation, land development and environmental services from offices throughout the East Coast. Engineering News-Record ranks VHB 82nd 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 Pioneer is seeking a Senior Traffic Engineer to join its growing Vergennes, VT office. This is an outstanding opportunity to join a dynamic organization and become a member of a growing team while working on several high visibility transportation projects.

Responsibilities will include traffic and transportation analysis and design review/supervision, project management, client interaction, public presentation, and staff supervision/development. The successful candidate will be expected to manage multiple traffic impact and transportation studies, participate in formal hearings and generate new business. Must also possess a clear understanding of all areas of traffic engineering standards and procedures, including basic intersection, roadway and traffic signal design; traffic impact assessment; knowledge of Transit Oriented Design (TOD) principles; and experience in traffic analysis for land development. Knowledge and experience with Vermont Agency of Transportation standards and processes, Vermont Act 250, and Federal Highway Administration review processes is a key advantage.

Qualified candidates must have a minimum of 10 years of progressively responsible experience in all areas of traffic engineering standards and procedures. Extensive local traffic impact study experience required. Knowledge of highway capacity methodologies, traffic analysis software standards, word processing and spreadsheet applications a must. Excellent oral presentation and communication skills are essential. BSCE and PE License (Vermont or reciprocal) required;

MSCE preferred. VT PE licensure should be obtained as soon as possible upon employment.

Please apply on-line: www.vhb.com

VHB is proud to be an Equal Opportunity/Affirmative Action Employer. VHB ensures non discrimination in all programs and activities in accordance with Title VI and Title VII of the Civil Rights Act of 1964.

6) **U | R | M | C**

OPPORTUNITY ANNOUNCEMENT

OPENING DATE: 9/01/08

Closing Date: Until Filled

POSITION TITLE: Civil Engineer

POSITION LOCATION: Stowe, Vermont

POSITION DUTIES: To provide civil engineering services utilizing topographic aerial (LiDAR) survey data to produce PLS-CADD transmission line models. Analyze transmission lines for minimum conductor-to-ground clearance and possible impairments caused by trees or high brush. Report results of vegetation analysis using ArcGIS. The successful applicant will also check, manage and maintain LiDAR data.

As a Civil Engineer, the incumbent is responsible for the following:

- Analyzing topographic aerial (LiDAR) survey data sets for completeness and accuracy.
- Storing and maintaining LiDAR data.
- Producing PLS-CADD models of existing transmission lines.
- Analyzing transmission lines for minimum conductor-to-ground clearance and possible impairments caused by trees or high brush.
- Reporting results using ESRI ArcGIS.
- Team participation including checking the work of others.
- Manipulation of LiDAR data for multiple engineering applications.
- Mastering multiple computer software applications.

QUALIFICATION REQUIREMENTS:

- Requires a Bachelor’s degree in Civil Engineering.
- A working knowledge of general surveying principles and geometry are desired. Must possess the ability to master multiple computer

software programs, work independently, and organize and prioritize assignments. Must also be skilled in written and oral communication, in establishing and maintaining effective working relationships, and working as a team member.

For information regarding this position or how to apply please contact Cathy Turner at (802) 253-6219 or e-mail address cturner@utilityrisk.com



**TRUDELL
CONSULTING
ENGINEERS (TCE)**

7)

Trudell Consulting Engineers (TCE) is a long standing civil/site engineering and survey firm. TCE is seeking qualified applicants for various technical, survey and engineering related opportunities in our Williston, Vermont office. Available positions may include internships and full-time assignments. Visit our website at www.trudellconsulting.com for current job listings, services, and company contact information.

8)

	<p>We offer a competitive salary, excellent benefits package, and a great team working environment.</p>
<p>We have opened a Williston office!</p> <p>We currently have the following openings for employment in our Williston and Montpelier offices.</p> <p>Civil/Site Engineers: Candidates for the Civil Engineering positions should have, a bachelor's degree in Civil Engineering, and have passed the FE. Responsibilities will include site design, grading, water and sewer design, stormwater management, hydrology, erosion control, and local and state permitting. A working knowledge of AutoCAD, spreadsheet and word processing software is required.</p> <p>Structural Engineers: Candidates for the Structural Engineering positions should have a bachelor's degree in Civil Engineering, and have passed the FE. Responsibilities will include wood, steel, and concrete design, code interpretation, and CAD detailing. A working knowledge of AutoCAD, spreadsheet and word processing software is required. Positions are available for both new graduates and experienced engineers.</p>	

Please send letter of interest and resume to jobs@dirsteel.com.
Visit our website for more information.
www.dirsteel.com

81 RIVER STREET, MONTPELIER, VERMONT 05602
p. 802.223.4727 f. 802.223.4740
400 CORNERSTONE DRIVE, WILLISTON, VERMONT 05495
p. 802.876.5022 f. 802.876.5025

END OF JOB OFFERINGS

If your company has any job openings, please submit them to Shawn Kelley, VT Section Newsletter Editor at skelley@geodesign.net for posting.

9) Lake Washington Technical College is advertising for a civil engineer (P.E. with M.E.) to teach their civil engineering graphics program. They would like to hire prior to their fall quarter (09/21/09-12/10/09), during which time the new hire can be familiarized with the department operations.

Anyone interested can view the entire job listing at:
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A part-time position is also open and can be viewed at:
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Hello VT Mapping Program Customer,

You have been sent this announcement because you are a past customer of the VT Mapping Program. If you plan to access digital, paper, or archival orthophotos in the future, the information provided in this mailer is very important to you!

The VT Mapping Program within the VT Tax Dept. will cease to exist on June 5, 2009. VCGI's new Imagery Program will start up July 1, 2009. VCGI is taking on the archiving and distribution of digital orthos. See page to the right for details on the VCGI Imagery Program and other orthophoto product sources.

Please contact VCGI for more information if you need paper or digital orthos during the period between June 8 and July 1. See contact info below. Contact Bill Johnson at the Tax Dept. if you need to view Historic/Archived paper orthos or film after June 5 (see contact info on page to the right).

Please Note: The VMP customer list from which your name and address were acquired will not be merged with the existing VCGI customer list. Please contact Leslie Pelch via email, mail, or phone to let us know if you would like to be added to the VCGI customer list (provide name, organization, address, phone, fax, email): lesliep@vcgi.org, 802-882-3002. Members of the VCGI customer list will be notified by email when new digital orthophotos are made available.

Other ways to keep informed:

- Subscribe to the VGIS-L email listserv: www.vcgi.org/commres/vgisl
- Read the VGIS News – a PDF newsletter that is created and posted quarterly: www.vcgi.org/commres/publications

Why the Change? In 2008 the VT Tax Department chose to discontinue funding for the VT Mapping Program in the FY2010 budget. Other state agencies considered taking the program in, but fiscal reality prevented them from doing so. VCGI's existing capacity to archive and distribute digital geographic data made it the logical choice to take on the digital aspect of the program. VCGI is a public nonprofit (instrumentality of the state).

How will you get orthos after July 1?

VCGI Imagery Program (Digital Orthophotos) –

- Use the VT Interactive Map Viewer to view and print orthos for free using your web browser: www.vcgi.org/mapcenter (click on “go” next to the “VT Interactive Map Viewer” listing)
- Download individual compressed orthos from the VCGI Data Warehouse for free: www.vcgi.org/dataware (click on Imagery button in the Navigation Bar on the left)
- Purchase uncompressed orthos for one or more counties, or the whole state, on USB thumb drive or external hard drive (compressed or uncompressed) via order form: www.vcgi.org/dataware (click on Imagery button in the Navigation Bar on the left)

- Connect to the Imagery Web Map Service to bring orthos into your GIS project without downloading or purchasing anything: www.vcgi.org/dataware (click on Imagery button in the Navigation Bar on the left)

Paper Printouts of Orthophotos –

- Contact the Regional Planning Commission in your region to see if they can print an orthophoto for you for a fee (free to municipalities): www.vcgi.org/commres/rpc

- Contact a geospatial consultant from the VCGI Consultants List (codes indicate which consultants print orthos): www.vcgi.org/commres/publications (look for link to consultants list in the “General Info” section).

Historic/Archived Paper and Film Orthophotos –

- Contact Bill Johnson at the Tax Dept.: 802-828-5867 (During the transition, Historic/Archived materials may not be immediately available)



Vermont Section

P.O. Box 713

Windsor, Vermont 05089`

President Elect: Jason Booth, PE

Mr. Booth is a registered professional engineer with Forcier Aldrich & Associates, Inc. of Essex Junction, VT, where he has been employed for 5 years. He has several years of experience in municipal water/wastewater design and construction. Mr. Booth is a 2004 graduate of the University of Vermont, with a BS in Civil Engineering. He has been a member of ASCE since 2004 and was a student member of ASCE through college. He is currently the VTASCE Student Practitioner Advisor for Norwich University. Mr. Booth is currently engaged and living in Northern Vermont with his fiancé and two dogs.

Treasurer: Jessica Clark, EIT

Ms. Clark works for Milone & MacBroom, Inc. in South Burlington where she specializes in water resources engineering. Projects include hydraulic and hydrologic modeling, river restoration and assessment, and design of stormwater management treatments. She graduated from UVM with a degree in Civil and Environmental Engineering in 2004, where she served as Treasurer of the UVM Student Chapter of ASCE for three years and was a lead member of the Steel Bridge Team. In 2006, Jessica graduated from UVM again, with a MS in Environmental Engineering. She enjoys skiing, hiking, gardening, pottery, and lives in South Burlington with Will and their beloved dog Maple.

New England Council Delegate: Floyd Sheesley, PE

Mr. Sheesley currently holds the position of Town Engineer in Colchester, VT. Prior to moving to Vermont in 2005, he was the Director of Engineering Services for the City of Valdez, Alaska. He has 11 years of civil engineering experience and earned his professional engineering license in 2004. Mr. Sheesley graduated with a BSCE from the University

of Alaska, Fairbanks in 1995. He lives in Milton, VT with his wife Andrea, son Iverson and Daughter Zofia.

Newsletter Editor: Benjamin D. Heath

Mr. Heath works for Hamlin Engineering Inc out of Essex Junction Vermont. He is a Senior at the University of Vermont with majors in Civil Engineering and Environmental Studies, with minors in Mathematics and Forestry. Mr. Heath grew up in Jay, Vermont, and now currently lives in Colchester. He enjoys outdoor activities such as snowboarding, kayaking, rafting, soccer, and fishing.

Webmaster: Robert M. Klinefelter

Mr. Klinefelter is a student at the University of Vermont where he is working toward a BS in Civil Engineering. He grew up in Vermont and plans to stay in Vermont after graduating in May 2010. Mr. Klinefelter has spent three summers working as a land surveyor for Vermont Survey and Engineering in Montpelier, VT. He is a student member of ASCE and is also a member of Chi Epsilon.

UVM Student Practitioner Advisor: Erik Alling, EIT

Mr. Alling works at Stantec Consulting as a Transportation Engineer. He is on the Office Sustainability Committee for Stantec's South Burlington office which focuses on reducing waste and energy consumption and promotes commuting using alternative transportation. He graduated from UVM in 2008 with a BS in Civil Engineering. He currently lives in Winooski.





BOSTON SOCIETY OF CIVIL ENGINEERS SECTION

Geo-Institute

Presents a One-Day Seminar Titled

Energy and Sustainability in Geotechnical Engineering



of the American Society of Civil Engineers

Saturday October 3, 2009

George Sherman Union

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Boston University

Boston, Massachusetts

7:30 am to 5:00 pm

Seminar Attendees will be awarded 7 PDHs

{NY PDHs are being sought}

Parking in Lot H (Bridges Lot) located next to the George Sherman Union is included in the cost of the seminar. Attendees will be mailed a parking pass that must be displayed in their vehicle. Overflow parking is available in Lot F (808 Commonwealth Avenue).

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Non-Member \$255

Full Time Students & Seniors (65+) \$125

Public Sector Member \$145

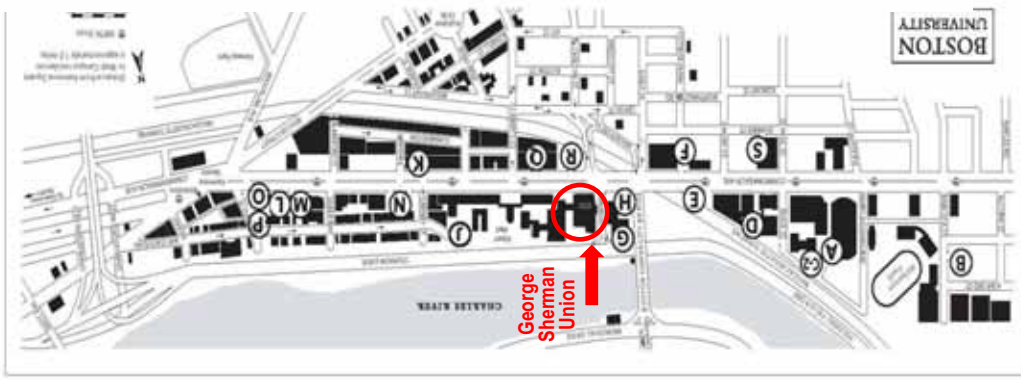
Public Sector Non-Members \$210

Seminar Notes Only \$100

No shows will be billed at the Non-Member rate.

Paid registrations must be received by September 25, 2009. The fees for the seminar include the cost of lunch, coffee break, and seminar notes. Register to attend this meeting and pay by credit card online at www.bscses.org. Search for this program under Events. Click on Events, then BSCES Events; locate and click on the program name and on the next page click on Learn More. You can also register by completing and mailing the registration form with your check to the address below. Cancellations received after the registration deadline and no-shows will be billed. If you have any questions, please contact Doris Soucy via email at DSoucy@geiconsultants.com. Please note that attendance is limited to the first 200 received paid registrations.

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BOSTON SOCIETY OF CIVIL ENGINEERS SECTION

Geo-Institute One-Day Seminar



of the American Society of Civil Engineers

Energy and Sustainability in Geotechnical Engineering

Saturday, October 3, 2009

SEMINAR SCHEDULE

- Registration (coffee and pastries provided)** 7:30 - 8:00 am
- Introduction and Welcome** 8:00 - 8:10 am
Jeanne LeFebvre, P.E., GEI Consultants, Inc., Seminar Chair
- Geothermal Energy in Massachusetts and New England** 8:10 - 9:10 am
J. Michael Rhodes, Ph.D., University of Massachusetts Amherst
- Design and Construction of Foundations for Offshore Wind Turbines** 9:10 - 10:10 am
Sanjeev Malhotra, P.E., G.E., Parsons Brinckerhoff
- Coffee Break** 10:10 - 10:20 am
- Sustainability in Geotechnical Engineering and Construction** 10:20 - 11:20 am
Tom Pedersen, P.E., CDM
- Carbon Sequestration** 11:20 am - 12:20 pm
Ruben Juanes, Ph.D., Massachusetts Institute of Technology
- Lunch** 12:20 - 1:20 pm
- The Geothermal Continuum** 1:20 - 2:20 pm
Ryan Law, Ph.D., Geothermal Engineering Ltd
- The Nuclear Renaissance: Licensing and Seismic Design Considerations for New Power Plants** 2:20 - 3:30 pm
Rabia Sarica, Ph.D., & Everett Washer, P.E., C.G., Shaw
- Coffee Break** 3:30 - 3:50 pm
- Small Hydropower – Past, Present, and Future** 3:50 - 4:50 pm
Chad Cox, P.E., GZA GeoEnvironmental, Inc.
- Closing Remarks** 4:50 - 5:00pm

Chad Cox, P.E., is a civil engineer and associate principal with GZA GeoEnvironmental, Inc. of Norwood, Massachusetts. Mr. Cox has been working in the fields of dam and hydropower engineering for over 17 years. He has recently focused on projects involving retrofitting of small hydropower generation to existing dams. Mr. Cox holds degrees in civil engineering from Princeton University and the Massachusetts Institute of Technology. He is a registered professional engineer in Massachusetts.

Ruben Juanes, Ph.D., is the ARCO Assistant Professor in Energy Studies at MIT. Prior to joining MIT in 2006, he was Acting Assistant Professor at Stanford University (2003-2005), and Assistant Professor at UT Austin (2005). He leads a research group that studies multiphase flow through porous media, with application to energy-driven problems: oil and gas recovery, methane hydrates, and geological carbon sequestration. He is the author of over 40 peer-reviewed journal publications and over 50 conference papers. He was a plenary speaker at the 2006 Gordon Research Conference on Flow and Transport in Permeable Media, and the 2009 International workshop on Modeling and Risk Assessment of Geological Storage of CO₂.

Ryan Law, Ph.D., is a geologist specialising in shallow and deep geothermal systems. He has a degree in geology from Oxford University and a Masters in Hydrogeology. His PhD thesis was on the transport and modelling of heat in fractured rocks. He has worked primarily with Ove Arup and Partners Ltd on geothermal systems ranging from shallow heating and cooling systems to city scale district heating networks and due diligence of geothermal electricity generation plants. He has specialist skills in numerical modelling, particularly with regards to groundwater flow, heat flow and fracture networks. He is currently managing director of Geothermal Engineering Ltd which was launched specifically to develop a trial deep geothermal power plant.

Sanjeev Malhotra, P.E., G.E., of Parsons Brinckerhoff has over eighteen years of practical experience. He has served in a Lead role on a variety of engineering projects, such as airport facilities, marine facilities, water conveyance tunnels and reservoirs, offshore and onshore wind turbine farms, light-rail transit, transportation corridors, commercial buildings, and residential land development projects. He has co-authored the guide specifications for Load-Resistance Factor Design of Long Span Bridge Foundations for FHWA. He has also authored a monograph on the design and construction of offshore wind farm foundations. He has written over 20 technical papers presented in numerous international conferences in Japan, Portugal, Canada and the US.

Tom Pedersen, P.E., is Director of Sustainability for CDM's global operations. He is responsible for continual improvement of sustainability performance in operations, community, people and clients and projects and is leading the implementation of CDM's Sustainability Management System for internal operations. Mr. Pedersen also provides sustainability strategy and management system support to leading airports, utilities, aerospace, oil & gas, and food & beverage industry clients. Mr. Pedersen has served on the ISO 14001 Environ. Management System (EMS), U.S. Technical Advisory Group (TAG), and the ISO 26000 Social Responsibility TAG. He is vice chair of the Water Environ. Federation (WEF) Sustainability Community of Practice and Chair of the WEF EMS Committee. He received his BS from Cornell Univ. ('75) and his MS in from Penn. State Univ. ('77).

J. Michael Rhodes, Ph.D., has been a professor of Geochemistry at University of Massachusetts at Amherst since 1978. Educated initially in England, he began his professional career mapping and studying granites in the Northern Territory of Australia. He pursued graduate studies at the Australian National University. Afterward, as a Principal Investigator in the Apollo Lunar Program at NASA's Manned Spacecraft Center he established an x-ray fluorescence laboratory to analyze the returned lunar samples, particularly the volcanic rocks. Using similar techniques in studying lunar rocks, he began a study of ocean floor basalts. He has continued these studies at UMass, but has added the study of active volcanoes. Rhodes also runs the University's x-ray Analytical Facility.

Rabia Sarica, Ph.D., has been a geotechnical engineer at the Shaw Group Inc. (Shaw Environmental and Infrastructure) since Nov. 2007. Her responsibilities include providing soil characterization and foundation design requirements for various structures including nuclear power plants (mostly independent spent fuel storage installations – ISFSI's), earth retaining, and flood protection structures. Prior to 2007, she gained expertise in the field of dam engineering while working for GZA. She earned her Ph.D. from North Carolina State Univ., holds an M.S. from Bogazici University in Istanbul, Turkey and a B.S. degree from Istanbul University, Turkey.

Everett Washer, P.E., C.G. is a Senior Project Engineer with the Shaw Geotechnical Group in Stoughton, Massachusetts. He has more than 35 years of experience in geotechnical and environmental site characterization to design and license nuclear power plants and other nuclear facilities. He currently supervises geotechnical engineering efforts for Shaw's new domestic nuclear power plant initiatives and EPC projects, primarily for sites located in the Carolinas, Georgia, and Florida. He has a B.S. degree in Geology from MIT with additional graduate work in geophysics and geotechnical engineering at MIT and Boston College.



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