

# The New Hampshire *Civil Engineer*

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New Hampshire Section of the American Society of Civil Engineers  
P.O. Box 4953, Manchester, NH 03108

April 2010

## President's Message



Hello April! Well, you could say we already experienced April... in February and March. Tremendous storms, wind and rain, warm weather, floodwaters, unseasonal snow melt – yikes! First - thank you to the tireless public works personnel, engineers, line workers, utility managers, police officers, emergency services personnel, and others who returned the state to normal in remarkable time during the recent February and March storms. And a “tip of the hat” to the utility companies who learned from previous disasters by preparing their employees, implementing new strategies, and communicating effectively. Sounds like engineering! My family was just one of many that experienced the storms and witnessed their extraordinary efforts first hand; it is amazing how dependent we all have become on our utilities.

Most years ASCE-NH has a “light” winter; however, this year’s Board of Directors continues to push hard on behalf of the Society. The Board is truly a great team who works diligently throughout the year. I’m very impressed, as well, at the participation ASCE-NH has had over the past few months at all levels. As we move forward the level of interest in next year’s board and committee membership is increasing. This is ASCE. We are an enthusiastic

and energetic bunch, always looking to do well for our colleagues. I love the support garnered at the committee level and I can tell you; there has not been a better time to get involved. Gone are the days when ‘getting involved’ required taking on the chair of a committee. We create teams now, and I encourage those who have stayed on the sidelines to get involved and help out! It will be good for you and ASCE.

Participation is always welcome, especially in new committees such as the Website Team, revitalizing the History and Heritage Committee, developing new projects such as an update of the New Hampshire Infrastructure Report Card, or as Younger Members participating and planning the 2011 Eastern Regional Younger Member Conference co-hosted with the Maine Section in Portland, Maine. There will never be a shortage of need because there is never a shortage of ways we need to get our voice and the voice of Civil Engineering, heard! All of these services are encouraged to help develop our profession, community, and ourselves.

Ballots will be emailed and added to the newsletter very soon. Normally, we receive very few ballots; however, I am imploring you to review and vote on this year’s ballot. The Board, led by Ken Milender, has been hard at work updating the Section’s Constitution. In order to finalize the inclusion of the Granite State Geo-Institute, we need your help to ratify the changes. Please vote!

*(continued on page 2)*

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*All newsletter submissions must be  
received by the 10<sup>th</sup> of the month  
prior to publication.*

**Next deadline:  
Monday, April 12th**

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**President's Message** (continued from page 1)

Don't forget to check out the meeting announcements and save the dates in this issue; the spring program is full. The April meeting is co-hosted by the UNH Student Chapter. The students plan and toil on the Order of the Engineer Ceremony. An important note is that the Order of the Engineer Ceremony is open to professionals. If you are interested in participating, please check out the website for details, [www.ascenh.org](http://www.ascenh.org). It is refreshing to once again look at the Civil Engineering Profession through the eyes of those just starting their careers. Be inspired, be involved, be there. Your "older and wiser" presence will allow the students to network and may just provide new contacts for you!

Congress continues to ensure that the Surface Transportation Program limps along by approving another extension through the end of 2010. But not without affecting thousands of Department of Transportation employees and millions of dollars in projects, as the government shutdown due to expiration of the last extension. When will Congress stop discussing and act? The current program is based on 20<sup>th</sup> century financing principals and estimates, how can the states and federal governments continue to operate in the 21<sup>st</sup> century? At the recent ASCE Fly-in, an army of ASCE members including two from New Hampshire swarmed the Capitol to discuss Transportation, Aviation, Water and Wastewater, and Dam Rehabilitation financing under the theme "Infrastructure Investment = Jobs". The discussions are invaluable in helping legislators and staffers understand real issues, however our voices cannot be heard once a year. Please strongly consider helping Darren Benoit and Jeff Bjrz voice our concerns and disseminate information at the State and Federal level. You must know that there are many voices in the ears of these decision-makers. If Civil Engineering is not in the mix, we will simply have no voice and the results will not be good.

President Blaine Leonard added commentary in the Washington Post about his views on how the gasoline tax is allocated, stressing the entire tax be used on transportation. After all, this is how it is generated! It is very encouraging to have a strong voice at the ASCE National Level continually speaking on our behalf and providing information to our elected officials.

(continued on page 7)

## APRIL MEETING ANNOUNCEMENT

Joint meeting with the  
UNH College of Engineering and Physical Sciences

Including a  
Key note address by Kathy J. Caldwell, P.E., M.ASCE  
ASCE National President-Elect

Date: Thursday, April 15, 2010

Times & Events: 5:00 pm, Order of the Engineer Ceremony  
5:45 pm, Registration and Social Hour  
6:45 pm, Dinner  
7:15 pm, ASCE-NH Business Meeting  
7:30 pm, Key note address by Kathy J. Caldwell, P.E., M.ASCE  
ASCE National President-Elect

Location: Huddleston Hall, UNH Campus,  
Durham, NH

Cost: \$40.00 ASCE members, \$ 45.00 Non-members or members after April 8th,  
\$25.00 Students  
Note: No-shows will be invoiced for the cost of the dinner.

Meal: Buffet featuring Cracked Peppercorn Crusted Beef Tenderloin and Chicken  
Please indicate if you would prefer a Vegetarian Entrée.

Synopsis: The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. Any engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. If you are interested in participating in the ceremony, please contact Jo Daniel, [jo.daniel@unh.edu](mailto:jo.daniel@unh.edu).

President-Elect Caldwell will present the key note address. Kathy Caldwell, P.E., is the president-elect of the American Society of Civil Engineers. She has served ASCE in multiple leadership roles since 1988, most recently as chair of the strategic planning committee and as a member of both the board of direction and the executive committee. She earned a Bachelor of Science in structural engineering and construction engineering from the University of Tennessee – Knoxville, and has been honored as an outstanding alumni by its department of Civil and Environmental Engineering. Caldwell brings nearly three decades of industry experience to the ASCE presidency. She spent 19 years with Jones Edmunds and Associates, Inc., her last position there as vice president. After leading the successful establishment of a new market sector for the firm, Caldwell was named president of JEA Construction Engineering Services, Inc., a wholly owned subsidiary of Jones Edmunds. She is currently president of Caldwell Cook & Associates and serves as an adjunct professor at the University of Florida.

## New Hampshire Section ASCE

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Reservations: Email preferred to [baudet@cmaengineers.com](mailto:baudet@cmaengineers.com), or by phone at 603-627-0708

Please send checks made payable to NH-ASCE by mail to:

Britt Audet, P.E.  
CMA Engineers, Inc.  
55 South Commercial Street  
Manchester, NH 03101

Reservation Deadline April 8, 2010

### Directions & Parking:

Take Rt-4 to Route 155A which becomes Main Street. Huddleston Hall is located on the right just after Holloway Commons. Parking may be available in the "C" lot (bottom of the hill behind Holloway Commons) take a right onto Mast Road and is metered. Alternatively, metered parking is available on the street and parking is available at off site lots with shuttle service to Holloway. A map of the University is available at [www.unh.edu/map](http://www.unh.edu/map)

*Earn 1.0 Professional Development Hours (PDH) for meeting*

## *NH ASCE Happy Hour!!*

NH ASCE Younger Members are sponsoring a Happy Hour. Come enjoy free appetizers with friends.

No need to RSVP, just show up and enjoy yourself!

Date: Wednesday April 14, 2010

Time: 5:30pm—7:00pm

Milly's Tavern, Manchester, NH  
Email us for directions!

Contact person: Logan Johnson

*NH American Society of Civil Engineers*

E-mail:  
[youngermembersnh@gmail.com](mailto:youngermembersnh@gmail.com)





*Leadership and Management in Engineering*  
**Special Issue: “Moving Toward Partnerships: The Challenge for Emerging Master Builder Engineers”**

**Call for Papers**

You are invited to submit an article to the *Leadership and Management in Engineering* (LME) journal for a special issue focusing on the practical initiatives engineers and other major project stakeholders are introducing to achieve the outcomes presented in “Achieving the Vision for Civil Engineering in 2025: A Roadmap for the Profession.” To obtain a complimentary copy, go to:

<http://content.asce.org/vision2025/>

**CALL FOR PAPERS DETAILS**

**Scope**

Your paper may address any part of the Roadmap’s suggested outcomes and tactics. If engineers are to earn the title “Master Builder,” they must get beyond submitting infrastructure “scorecards” to the press. “Design. Build. Done” cannot continue as our engineering and construction services mantra. Either engineers will develop strategies that work, or others will do it for us. Hence, the first step is to learn what clients, agencies, NGOs, architecture, and engineering and construction professionals have actually started doing, stopped doing, and continue to do that supports the incremental achievement of the Roadmap’s inclusive and collaborative partnership goals.

For example, what might result if clients required that RFP submittals require inclusion of Value Engineering and Life Cycle Costing? How might this information be communicated to major project stakeholders before the project is green-lighted? What might legal counsel suggest to make such change work and to mitigate levels of unreasonable risk?

This special issue focuses not only on tangible change but also on even more challenging intangible change—that is, sociocultural change within and among the major stakeholder groups. Share your achievements, challenges, and future prospects in collaborative leadership—How did you address a specific or supporting outcome? Or share a mini-case study of when a tactic was addressed in a project—What went well, what did not, and what lessons were learned?

**Example Topics**

*This special issue invites papers addressing topics such as:*

- Facilitation and leadership of multidisciplinary collaborative programs using a systems approach
- Applied sustainable practices, design, and life-cycle financial support
- Application of innovative technologies and information management tools to create solutions in the built and natural environment
- Effective communication of risks and mitigation options to protect colleagues, clients, regulatory agencies, and the public
- Design strategies for the long term
- Leadership approaches for engineering education in the 21st century.

LME welcomes joint or separate submissions from professionals in such fields as anthropology, architecture, communication, computer science, economics, engineering, geography, information studies and systems, management systems, planning, political science, psychology, sociology, and telecommunications.

**Important Dates**

- |  |               |
|--|---------------|
| § Last date for receipt of abstract:   | 15 Sept. 2010 |
| § Last date for receipt of manuscript: | 15 Nov. 2010  |
| § Special issue publish date:          | April 2011    |

Call for Papers

Submission Guidelines

Provide a 150- to 200-word abstract that captures what you wish the LME readership to know.

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. All papers are subject to editorial review and approval. A guide for authors, sample copies, and other relevant information for submitting papers are available online: <http://pubs.asce.org/authors/>

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**BRIDGE ENGINEER**

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**CIVIL ENGINEER**

Civil Engineer (entry level) with interest and/or 4 years experience with the design of highway, airfield or bridge projects. CADD experience or training required. LDD experience a plus. Duties include: field inspections, preparation of contract documents (plans/specifications), reports and design calculations. EIT required or ability to obtain.

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-EEO-

President's Message (continued from page 2)

I have recently been reminded why this profession is amazing; watching restoration of the power lines and driving in awe of the benefits of American Recovery and Reinvestment Act through many construction sites in the Mid-Atlantic States. Sometimes these reminders will move us to refocus and adjust attitudes. As engineers, we make a difference; each decision we make has profound implications on the public, its well-being and health, transportation of goods and services, and produces a product that we can look back at and admire. Please remember that as an engineer you are extremely important in society, and with this importance induces a responsibility to maintain our edge by investing in ourselves, challenging others (including clients!), and getting involved. I look forward to meeting you in the future.

*Jason M. Ayotte, PE, is President of ASCE-NH and a Transportation Engineer with VHB in Bedford, NH. Mr. Ayotte welcomes comments and may be reached at [jayotte@vhb.com](mailto:jayotte@vhb.com) or (603) 644-0888, Ext. 2584.*

(LRFD) For Geotechnical Engineering Features: Drilled Shafts

Held at: NH DOT, Concord, NH, February 8, 2010

(1.5 PDHs)

Attendance List

Tracey Adams	John DiGenova	Robert Juliano	Ken Milender
Mirsad Alihodzic	Stephen Dookran	Jay Hodkinson	Mike Mozer
Eric Baron	Chuck Dusseault	Roger Keilig	Mark Peterson
Shannon Beaumont	Larry Dwyer	David Lamothe	Richard Porter
Joseph Blair	Trey Dykstra	Jon LeBrun	Scott Shillaber
Scott Carter	Gordon Edington	Jerry Maher	Aaron Smart
Pranay Chavva	Fred Emanuel	Tony Manzi	Charles Teale
Mike Ciance	Lauren Gardner	Frank Marowitz	Mahendra Thilliyar
Tom Cleary	Dan Gelinas	John Maynard	Carl Thunberg
Rebecca Cox	Jim Guarente	Gary McAllister	Craig Ward
Marisa DiBiaso	Logan Johnson	Joe Mendola	Julie Whitmore

## Cranium Challenge

April 2010

Congratulations to our colleagues who provided the correct answer to the February challenge:

$$1^2 + 2^2 = 5, 3^2 + 4^2 = 25 \dots 11^2 + 12^2 = 265$$

Jennifer Mates, PE	Wright-Pierce
Christian Smith, PE	Beals Associates, PLLC
John Aveni, PE	Scanada International, Inc.
Dave Beck	Jacobs Associates
Anthony Grande, PE	Vanasse Hangen Brustlin, Inc.
Jeffrey Bjrz, PE	Lebanon Public Works
John Turner	Turner Consulting, Inc.
Tim Audet	Hoyle, Tanner and Associates, Inc.
Bill Herman	Town of Auburn, NH
Mark Zydell, PE	Hoyle, Tanner and Associates, Inc.

April puzzle:

Peter picked one pepper more than Paul. Pat picked one pepper more than Pam. Peter and Paul picked 10 more peppers than Pat and Pam. Peter, Paul, Pat and Pam picked 60 peppers. How many peppers did Peter pick?

Send your solutions to Rebekah Briggs, University of New Hampshire, W183 Kingsbury Hall, Durham, NH 03824 or by email to [rebekah.briggs@unh.edu](mailto:rebekah.briggs@unh.edu). Correct responses received by March 1, 2010 will be recognized in a future issue of "The New Hampshire Civil Engineer".

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## Planning Calendar

April 15, 2010	Joint Meeting with UNH Student Chapter, Huddleston Hall, UNH, Durham, NH
April 14, 2010	Young Members Happy Hour, Milly's Tavern, Manchester, NH
April 30 – May 1, 2010	First Alumni Conference, University of New Hampshire, Durham, NH
May	OCEA Awards Ceremony
June	Golf Outing, Beaver Meadow Golf Club, Concord, NH

**View the unified engineering calendar at [www.nhecal.org](http://www.nhecal.org).**

Contact Britt Audet, PE at CMA Engineers (603) 627-0708 or [baudet@cmaengineers.com](mailto:baudet@cmaengineers.com) for details on upcoming meetings.

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