The New Hampshire Civil Engineer

New Hampshire Section of the American Society of Civil Engineers P.O. Box 4953, Manchester, NH 03108 VOL. 36 No. 04

April 2015

Many thanks to Parsons Brinckerhoff, our APRIL SPONSOR OF THE MONTH!

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PRESIDENT'S MESSAGE

It's Go Time, New Hampshire Section!



It's time to roll up your sleeves for the civil engineering profession! ľm talking about long hours at the office, budgets, or deadlines. I'm talking about collaborating with professionals, volunteering in vour community, and being active government. The

greatness of the profession is in your hands!

Collaborating with professionals begins with professional societies like ASCE-NH. How active are you in a professional society? Consider volunteering for a committee or a board position. Ideas generated and exchanged through societies are invaluable to the profession. Help make civil engineering the prestigious profession it should be. Get involved.

Community-volunteer opportunities are endless; Why? Because there is always room for improvement. Consider speaking to students about the civil engineering profession. Consider being a judge for a science competition. Students are the future of the profession! Volunteer for communityprojects, cleanups, and fundraisers. Communities need your problem-solving skills!

Being actively involved in government is crucial to the success of the profession. A common grumbling among engineers seems to be a lack of funding for projects. As engineers, we need to communicate our needs for funding at the local and national levels of government. We have superior knowledge about project-lifecycle costs. We know that short-term funding compounds the problem of our aging infrastructure. I encourage you to actively participate in local planning-meetings and correspond with your elected officials regarding legislation and funding. You can make a difference!

Continued page 2

2014~2015 BOARD OF DIRECTORS

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What's Inside?

- Sponsor of the Month
- Golf Tournament
- Meeting Announcements
- · Spotlight on Darren Benoit
- Cranium Challenge
- Professional Directory

..... and more!

Newsletter Editor

Fran Weaver
Hoyle, Tanner & Associates, Inc.
150 Dow Street
Manchester, NH 03101
603-669-5555, x-111

Please Send Correspondence To:
The New Hampshire Civil Engineer
NH ASCE
PO Box 4953
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Classified Ad: \$15/column-inch

3.5" column, 10-pt font

\$165.00/year

Advertisements should be placed with the newsletter editor prior to the deadline.

Details on website.

All newsletter submissions must be received by the 10th of the month prior to publication.

Next deadline (For April 2015 issue): March 10, 2015

Newsletter Publisher

Town & Country Reprographics, Inc. Concord, New Hampshire

PRESIDENT'S MESSAGE (continued from page 1)

Making a difference starts with taking the first step. The civil engineering profession faces great challenges today. Making a difference may seem a daunting task when looking at the challenges as a whole. However, by taking the first step you are one step closer to preserving, and better yet, enhancing your profession. Don't leave the work to your neighbor engineer. Instead, recruit your neighbor engineer to take the first step with you. The greatness of the profession is in your hands!

ASCE-NH has some exciting events planned for the remainder of the year. Events include: the Order of the Engineer, a Pavement Workshop, the Annual Meeting, and the Golf Outing. Please see the event announcements for more information. ASCE-NH has some great volunteer opportunities planned for the remainder of the year. Volunteer opportunities include the 2015 Teacher-Engineer Summer Scholar Academy and the UNH Tech Camp...among others! Stay tuned for more information.

If you have any questions about events or volunteer opportunities I encourage you to contact me at 603-692-0088 or ncote@swcole.com. It's go time, New Hampshire Section. Let's make a difference!

Nathan Cote, P.E. is a Geotechnical Engineer with S. W. Cole Engineering, Inc. He earned B.S. and M.S. degrees in Civil Engineering from the University of Maine. He lives in Dover, New Hampshire with his wife, Erin and daughter, Iris.



Each year, the NH Section recognizes an exceptional project with the New Hampshire Outstanding Civil Engineering Achievement (OCEA) award. Nominations for this year's OCEA award will be due April 20, 2015. Please check the NHASCE website for application guidelines. Please contact Britt Audet at baudet@cmaengineers.com for more information.

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7:00am - Registration

7:30am - Continental Breakfast

8:30am - Shotgun Start

1:30pm - Buffet Style Lunch

2:15pm - Announce Contest/Raffle Prize Winners

FORMAT

Scramble - Each player tees off on each hole. The best of the tee shots is selected and all players play their second shots from that spot, and so on until the ball is holed.

CONTESTS / PRIZES

1st, 2nd and 3rd Place TeamsPutting Contest at the TurnClosest to PinHole in One PrizesLongest DriveRaffles (including 50/50)





SPONSORSHIPS

- Gold Sponsor Sponsors lunch, raffle, and putting at the turn. Company name and logo will be displayed throughout the tournament. Includes a full page advertisement and sponsor of the month in the ASCE newsletter and a link on our website - \$500
- Silver Sponsor Company logo distributed on a sleeve of balls and score cards and also includes acknowledgement in the ASCE newsletter and a link on our website \$350
- Bronze Sponsor Sponsors breakfast, longest drive, beer cart or closest to pin and also includes acknowledgement in the ASCE newsletter and a link on our website - \$250

Team sign-ups are encouraged, 4-person teams: - \$375
 Individual sign-ups: - \$100
 Hole sponsorships: - \$125
 4-person teams with hole/contest sponsorship: - \$475

REGISTRATION

Golf/Lunch/Raffles: \$100.00

Golf includes: Greens fee/cart/goodie bag/contest participation/continental breakfast

Send Reservations: Email preferred to Marisa DiBiaso, mdibiaso@hoyletanner.com

Reservation Deadline May 29, 2015

Directions: Take I-93 to Exit 15W and merge onto 202W/US-4/393W. Turn right onto North State/US-3 at the end of 393. Proceed approximately 2.9 miles to a fork in the road. Bear right onto Sewall's Falls Road at the sign for Beaver Meadow. Course is on the Right.

2015 NH-ASCE Golf Scramble

June 5, 2015 Beaver Meadow Golf Club - Concord, NH 8:30 am - Shotgun Start

Team #1 Name		
Player #1	Player #2	
Player #3	Player #4	
Team Contact	Email/Phone	
Team #2 Name		
Player #1	Player #2	
Player #3	Player #4	
Team Contact	Email/Phone	
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Entry Deadline is Friday May 29, 2015.





CALL FOR ABSTRACTS AND SESSIONS

GEO Institute (G-I) and Structural Engineering Institute (SEI) of the American Society of Civil Engineers are hosting this first-of-its-kind event! And, you can be a part of the excitement.

This joint conference has combined the best of both Institutes Congresses into one unique event. This will take the place of the 2016 congress for both Institutes.

Submit an abstract or full session proposal by April 7, 2015

www.geo-structures.org

Geotechnical and Structural Engineering Congress

February, 14-17, 2016 - Phoenix, AZ





PAVEMENT DESIGN AND CONSTRUCTION SEMINAR ASCE / GRANITE STATE GEO-INSTITUTE AFTERNOON SEMINAR ANNOUNCEMENT

Coming in May!

LOCATION: NH Department of Transportation TIME: 11:30 – 12:15: Registration, Lunch

7 Hazen Drive, Room 114 12:15 – 4:00: Presentations including Q and A panel Concord, NH 03302 discussion, and one 15 minute break period

SPEAKERS: Eric Thibodeau, NHDOT - Chief of Pavement Management, Dr. Jo Daniel, UNH - Pavement Research

Mark Charbonneau, Continental Paving - Construction, Andrew Michaud, S.W. Cole - Material Testing

GENERAL TOPIC: Pavement Design and Construction. We have brought together a distinguished panel of experts that represent various fields of pavement design and construction including; pavement design, and management, asphalt research, asphalt plants, construction, and quality control. This seminar will discuss various topics of pavement design including the current state of practice, advancements in pavement design, cost implications of pavement design and mixes, and testing issues..

Please join us for this interesting and informative session

REGISTRATION: Coming soon please visit our website for more details www.ascenh.org

This presentation provides 4.0 PDHs.

New Hampshire engineer wins national advocacy award Darren Benoit named ASCE's first Advocate of the Year

By NHBR Staff Published: March 18, 2015



Darren Benoit, who heads the highway group for McFarland Johnson Inc. in Concord, has won the American Society of Civil Engineers' Outstanding Civil Engineer Advocate of the Year Award, the first time the award has been presented.

Benoit, of Bow, was honored for his efforts in promoting the need for infrastructure investment to strengthen New Hampshire's economy and enhance residents' quality of life, the society said.

Benoit has advocated for improvements to aviation, an increased investment in surface transportation at both the state and federal levels, passage of the Water Resources Reform and Development Act, and dam safety. In 2011, he led the New Hampshire Section of ASCE in its release of the Report Card for New Hampshire's Infrastructure and has again taken the lead to update the report.

He's also testified before the New Hampshire Legislature in support of transportation bills, including in 2014, in support of raising the fuel tax to increase investment in roads and bridges.

"As civil engineers, we are constantly thinking about the public's safety and welfare. Being a resource to lawmakers extends that effort by making sure legislators consider how their decisions will impact our infrastructure and environment—and, by extension, the economy," said Benoit.

Benoit, who has 25 years' experience as a transportation engineer, has managed highway, bridge and aviation design projects over his career.

He will be recognized at the American Society of Civil Engineers' annual Legislative Fly-In, March 24-26 in Washington, D.C.

The New Hampshire Section is very proud to see Darren's hard work be rewarded with this recognition. Congratulations, Darren, you deserve it!





ASCE-NH SECTION/ STUDENT CHAPTER JOINT MEETING

This meeting will be a great opportunity to celebrate engineering and take part in a ceremony that grows the fellowship of Engineers who adhere to the highest ideals of professional ethics and service! Join us for hors d'oeuvres and network with professors, professionals, and UNH students. Earn a PDH and show your support for the UNH students as they partake in the ORDER OF THE ENGINEER ceremony. You haven't taken part Professionals are invited to partake too! in the ceremony before? Contact Justin Keefe at jak1@wildcats.unh.edu for more information. Enjoy a dinner and guest presentation following the ceremony! As our guest, Patrick Santoso will share his work with the Road Salt Reduction program. Patrick has a BS and MS from UNH in Engineering, is the Director of Operations at the UNH Technology Transfer Center, and is currently pursuing a Ph.D.

EVENT DETAILS

DATE: Monday, April 20, 2015

SPEAKERS: Professor Cook

> Professor Henry Professor Fu Roch Larochelle Nate Cote

Patrick Santoso- UNH Technology Transfer Center

LOCATION: University of New Hampshire

Huddleston Hall Durham, NH

AGENDA: 5:00pm to 5:30pm

Registration and Appetizers 5:30pm to 6:30pm Order of the Engineer Ceremony 6:30pm to 8:00pm Dinner and Road Salt Reduction presentation by Patrick Santoso

COST: ASCE-NH Members: \$35.

UNH-ASCE Students: \$25

RSVP: By Wednesday, April 15, 2014

Register online at: http://www.ascenh.org/

INFORMATION: Justin Keefe: jak1@wildcats.unh.edu



Investing in America's Economy May 11-15, 2015

Affiliate Guide

What is Infrastructure Week?

Now in its 3rd year, Infrastructure Week is a national series of high-profile events, paper releases, media coverage, policy advocacy, and other efforts to draw attention to both the success stories and challenges facing America's critical infrastructure assets. Organized by leading organizations representing America's business, labor, and policy-making communities, Infrastructure Week is designed to convene a broad coalition of stakeholders to unite in a call to action to address America's infrastructure investment imperatives. While not an exercise in policy consensus, the Week affords participants and Affiliate organizations an opportunity to amplify their message, leverage each other's networks, and gain high-visibility media attention to promote a broad spectrum of infrastructure modes, priorities, and needs.

Infrastructure Week 2014 united more than 30 organizations, convened more than 20 events in and beyond Washington, and provided the backdrop for major infrastructure announcements by the President, Secretary of Transportation, and other key Administration officials. ASCE will be serving as a steering committee lead organization in this year and will focus on highlighting priority infrastructure issues nationally and at the local level. Infrastructure Week 2015 will build upon the foundations laid over the past two years to build an inclusive, non-partisan grassroots to treetops campaign to rebuild and renew America's infrastructure.

This movement cannot be built alone, and our future success depends on the active engagement and participation of a

broad group of stakeholders united around our core message—infrastructure is an essential part of investing in America's economy...

Steering Committee Members

- AFL-CIO
- American Society of Civil Engineers
- Building America's Future
- Brookings Metropolitan Policy Program
- Council on Competitiveness
- National Association of Manufacturers
- U.S. Chamber of Commerce

Benefits of Being A Part of Infrastructure Week

Infrastructure Week is a grassroots, stakeholder-driven movement, and you and your constituents are its strength. The Infrastructure Week Organizing Committee provides the central platform around which Affiliate organizations and participants can build momentum, plan and amplify the reach of events, and leverage networks, media, and visibility.

Affiliates will be able to list and link to events through the Infrastructure Week website (which garnered more than 20,000 discrete views in its first year), will be able to place press-releases and other media on the Week's website, and will be invited to participate in bi-weekly organizing calls to optimize the Week's agenda, visibility, and partnerships.

How to Participate as an Affiliate

There are multiple ways that your organization can participate in Infrastructure Week. Specifically, we ask that Affiliates run an **event, conference, workshop, reception, webinar,** or **release a paper** during the Week. While many organizations are creating original content for the Week, others are simply aligning existing efforts with ours to increase their national profile. Examples of Affiliate activities in past years include:

- A public forum at the Congressional Visitor's center on innovative infrastructure finance tools
- A webinar on creating successful ballot initiatives for increasing investment in public transit
- A private reception with elected leaders and corporate executives
- The release of a new whitepaper that quantified the number of Americans employed in the infrastructure sector
- A private workshop with state department of transportation and economic development policymakers

Affiliate Expectations

As Infrastructure Week is a broad platform to amplify our shared interests in supporting America's critical infrastructure needs, the expectations for Affiliates are modest:

- Include top line messaging related to Infrastructure Week 2015 in planned events
- Include in outgoing communications (newsletters, media advisories, press releases, member outreach)
 that events are affiliated with Infrastructure Week, and link back to our website
- Include our hashtag, #RebuildRenew, as part of your social media outreach

What Infrastructure Week is NOT...

- Importantly, Affiliates WILL NOT be asked to agree on or align policy positions. This effort is NOT
 focused on policy concurrence. Each organization has its individual policy priorities.
- Infrastructure Week does not provide funding, event spaces, or event planning services to Affiliates.
 However, many Affiliates in the Infrastructure Week network have successfully partnered to share costs, plan joint events, and leverage each other's members and stakeholders.

For More Information

For more information on getting involved with Infrastructure Week 2015, visit www.infrastructureWeek.org

ASCE Coordination Contact

Brittney Kohler, bkohler@asce.org O: 202-789-7854 / 800-548-ASCE (2723) ext. 7854



www.infrastructureweek.org



#RebuildRenew

CORPORATE SPONSOR OF THE MONTH

What is a Corporate Sponsor of the Month? This could be YOUR company! For \$250.00, you will receive a 8" x ½" Front Page Banner Advertisement featuring your company. The ASCE-NH homepage will show your company logo, linked to your firm's homepage. In addition, a full page of our newsletter will be yours -- available for you to tell our readers anything you want about your company - maybe you've recently acquired some new talent you want to boast about; or perhaps you just completed a very special project, or even reached a milestone anniversary year! The choice is yours - any topic that would be of interest to your colleagues in the engineering industry - You may use the space for photos, narrative, whatever way you decide to put your company's name - literally - in the headlines!

> December 2012 CDR Maguire January 2013 GZA GeoEnvironmental, Inc. Fay, Spofford, & Thorndike February 2013 March 2013 Tighe & Bond April 2013 International Erosion Control Systems, Inc. May 2013 S.W. Cole Engineering, Inc. June/July 2013 **Nobis Engineering** August/September 2013 International Erosion Control Systems, Inc. October, 2013 JTC, Inc. November, 2013 VHB December 2013 Fay, Spofford & Thorndike January 2014 Hoyle, Tanner & Associates, Inc. February 2014 Kleinfelder **ADS** March, 2014 April, 2014 Kleinfelder May, 2014 **Dubois & King**

> June/July 2014 TF Moran August/September 2014 S.W. Cole Engineering, Inc. October, 2014 Tighe & Bond

November, 2014 December, 2014

Shea Concrete Products January 2015 VHB

February 2015 March 2015

Golder Associates Parsons Brinckerhoff April 2015 To be announced! May 2015

Thank you to our past Sponsors of the Month for showing support for the ASCE's New Hampshire Section! Please consider signing up for sponsorship of future editions of The New Hampshire Civil Engineer. Remember, all proceeds go directly to the Scholarship Fund!!

Now reserving space for June 2015 and beyond!

To reserve space or learn more, contact fweaver@hoyletanner.com!

Of course, our regular classified advertising section is still available. See page 2 for more information.

The Evolving Future of Engineering Licensure

As engineers, we have all spent considerable time, effort, and capital developing the expertise needed to engage in our profession competently. Engineering school was a challenge and the early years of our careers were filled with long hours as we honed our skills and prepared for licensing exams. Obtaining licensure allowed us into the "professional" level. With the changing face of engineering, it is necessary to continue to learn and adapt to maintain this level.

The industry has gone from using slide rules and log tables to GPS and tablets over the past 30 years. Over that same timeframe, the typical engineering program has decreased from 145 semester hours to 128; with most of that decrease depleting upper level technical design courses. This reduction is a direct result of financial pressures at universities. A National Academy of Engineering report stated that "It is evident that the exploding body of science and engineering knowledge cannot be accommodated within the context of the traditional four year baccalaureate degree" (Educating the Engineer of 2020, 2005). The engineering education of the present will not be sufficient to prepare professional engineers for those future responsibilities.

Every other learned profession, faced with a similar explosion of knowledge, has concluded that post-baccalaureate education is required for professional practice. And, as they have done so, their professions have thrived and advanced. In 1998 the ASCE Board of Direction adopted Policy 465 that supports "the attainment of a Body of Knowledge for entry into the practice of civil engineering at the professional level" through "appropriate engineering education and experience". The "body of knowledge" for civil engineering has been well defined by ASCE's publication Civil Engineering Body of Knowledge for the 21st Century, 2nd Edition. The necessary education is defined as a baccalaureate degree in civil engineering plus a "master's degree in engineering, or no less than 30 graduate or upper level undergraduate technical and/or professional practice credits or the equivalent." The flexibility of either a master's degree or 30 credit hours provides two viable paths to meet the needed educational requirements for the professional engineer of the future.

ASCE leaders continue to believe that "raising the bar" on engineering education requirements for future licensure is the correct approach to dealing with the challenges that will face us. Efforts are moving forward to adopt this important change in licensure laws around the United States. The ASCE Raise the Bar committee is working with engineers in several states to educate stakeholders and get state licensing laws changed. In such a process, a local steering committee is established to meet with their licensing boards, universities, local firms, and other colleagues to garner support. Ultimately, legislative sponsors are secured, legislation is drafted, and local members prepare to testify before boards and committees.

Professional engineers with enhanced technical, professional, and leadership skills will contribute to new and more adaptive solutions. Leveraging these expanded skills, engineering firms and agencies will be able to create more effective project teams, generating improved operational efficiencies and service. Brad Aldrich, former NSPE President has stated, "As an owner of a private consulting firm, I think it's important that our incoming engineers have advanced education prior to licensure." Lt. Gen. Thomas Bostick, the Commander of the U.S. Army Corps of Engineers, stated in a letter to ASCE that the attainment of this expanded Body of Knowledge is "an essential step towards having engineers at a truly professional level. . . and one the USACE fully supports."

Change is occurring faster than at any time in human history. As engineers, we are expected to not only adapt to this change, but to encourage it, to cause it, and to bring about improvements in every aspect of our lives. The time is now to accept the challenge to expand engineering educational requirements for future generations of licensed engineers, to stretch the boundaries. To be entrusted by society to advance and protect the public health, safety and welfare and improve the quality of life into the future, the engineering profession must "raise the bar".

Read more about ASCE's Raise the Bar strategic initiative, and view videos from supporters of the initiative at www.RaiseTheBarForEngineering.org.

News from around the engineering community

SFC ENGINEER WORKS ON UNIQUE ABANDONED ARMORY PROJECT

Jeffery Benway, P.E and Retaining Wall Specialist, provided retaining wall services for The Residence at the Armory, an abandoned armory in Downtown Plymouth, MA. The Armory building was built in 1906 and has been a local landmark for over a century. The Armory was an active barracks and training facility for our Armed Services for decades.



SFC ENGINEER DESIGNS FIRST EVER GRS WALL IN A MARINE ENVIRONMENT

Jeffery Benway P.E. of SFC Engineering, designed the first ever GSR retaining wall in a marine environment in association with Redi-Rock of Central Maine and S.W. Cole Engineering. The wall is located in the town of North Haven, Maine. Jeff Benway was featured in Roads and Bridges Magazine, as well as, Redi-Rock International's official website. Congratulations Jeff!



TFMORAN AND MSC CIVIL ENGINEERS AND LAND SURVEYORS ANNOUNCE MERGER

TFMoran, Inc., a regional full service engineering firm, is pleased to announce that MSC Engineers, one of the leading engineering firms in the NH Seacoast area, is now a division of TFM. This merger allows MSC to substantially expand its traditional survey and civil engineering services by adding structural engineering, landscape architecture, wetlands delineation, traffic engineering, and construction inspection services.

Robert Duval, PE, President of TFM, explains that, "With the addition of MSC, an established engineering firm with a long history and solid reputation, we can offer more value and convenience to our clients not only in the Seacoast area, but throughout the region".

J. Corey Colwell, LLS, former President of MSC, will serve as the Division Manager, and oversee the Portsmouth division. The new office will retain the MSC name and current location at 170 Commerce Way in Portsmouth. The current staff contacts and phone numbers will also remain unchanged.

Dylan Cruess, COO of TFM, stated that, "TFM has been seeking to expand their presence to the Seacoast area, and the chance to merge with a quality firm like MSC presented an opportunity that the principals of TFM believed was an excellent fit for our growing Company."



S. W. COLE ENGINEERING, INC. (S.W.COLE)

A geotechnical engineering, construction materials testing and geo-environmental services firm with offices in Maine, New Hampshire and Vermont, has announced that it has formed a wholly-owned subsidiary named S. W. Cole Explorations, LLC (S.W.COLEx). The new company will support S.W.COLE's geotechnical engineering and geoenvironmental projects by performing test boring explorations.

The formation of S.W.COLEx will allow S.W.COLE more flexibility in scheduling test boring explorations, and more control over budgeting, explained Chad Michaud, PE, Executive Vice President and Chief Operations Officer. The new company will service S.W.COLE's projects throughout New England from its base in the Manchester, New Hampshire area office and is led by a team of seasoned professionals, including Kevin Hanscom, a geotechnical engineer who has worked for S.W.COLE in the Bangor, Maine office for more than 20 years, and driller Bob Marcoux, who has 30 years of experience as a drill operator performing geotechnical and environmental test borings.

More information can be found on S.W.COLE's website at http://www.swcole.com/explorations.



A NEW YEAR BRINGS NEW LEADERS AT CONSULTING ENGINEERING FIRM SANBORN HEAD & ASSOCIATES!

Concord, NH (March 24, 2015) - Over the past 22 years, Sanborn Head & Associates has quietly grown their consulting engineering firm to over 115 employees with their largest presence in NH and MA, and with offices as far west as Ohio. Founded by four gentlemen that were once at a now competitor, they started the firm with a goal of making Sanborn Head a generational company that they are now putting into play. It's not often that you see almost an entire leadership team change, but at Sanborn Head, they have been grooming the 'next generation' for years and they are ready. With two out of the four founders being officially retired by June of 2015, they have followed through on their long-time plan of 'turning the company leadership over to the next generation'.

"I guess it's quite a story", says **Charles Head**, a remaining founder who is turning over his responsibilities as President and continuing in his role as CEO with a much more outward-looking focus as of January 1st.

Barret Cole, P.G., L.E.P., is assuming the role of President and Chief Operating Officer responsible for the day-to-day management of the firm. Barret has run the firm's Industrial Practice, the largest client service area for Sanborn Head for the past four years.

Others taking on new leadership roles are just as prepared and excited: **Matthew Poirier**, P.E., who historically has been a leader in the firms Solid Waste practice working with one of their largest clients, is taking on the role of Executive Vice President; **Patricia Pinto**, P.E., L.S.P., L.E.P., is assuming leadership of Sanborn Head's development market sector; **Donna Clarico**, CPA, is now the Vice President of Finance, having an expanded role in the financial management of the firm.

Charles Head, P.E., P.G., remains Sanborn Head's CEO and will direct his efforts externally on visibility and growth initiatives for the firm; **David Adams**, P.E. will continue to lead Sanborn Head's growing solid waste practice; **Mike Nicoloro**, P.E. will continue to lead Sanborn Head's energy services group, providing services to clients in all of our market sectors; **Kim Sousa**, who joined the firm last fall, will continue to build a solid marketing infrastructure and integrate business development activities as Vice President of Business Development and Marketing.

Cranium Challenge

April 2015

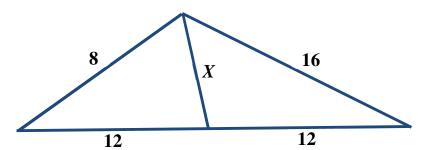
Congratulations to **Kirk Stenersen, PE from Higher Design, PLLC** who successfully solved the February challenge!

The answer for the February challenge:

This challenge may have looked familiar – it's a special case of the "coin problem" that Henri Picciotto proposed in an algebra text in the 80's. He called it the "McNugget Number" problem – referring to the total number of Chicken McNuggets found in any combination of McNugget order sizes that you could find on the McDonald's menu around that time (six, nine, and twenty pieces). The largest value that cannot be made from a set of numbers is called the *Frobenius number* of that set. In the case of {6, 9, 20}, this number is 43.

The April Puzzle is as follows:

Given the following arrangement of lines (not drawn to scale), solve for X:



Send your solutions to Justin Lowe, University of New Hampshire, Kingsbury Hall Room W220, 33 Academic Way, Durham, NH 03824, or by email to <u>Justin.Lowe@unh.edu</u>. Correct responses received by **June 10, 2015** will be recognized in a future issue of "The New Hampshire Civil Engineer".

CLASSIFIED ADVERTISEMENTS

SENIOR PROJECT MANAGER Water & Wastewater Engineering

Hoyle, Tanner & Associates, Inc. is seeking dynamic Senior Project Manager to join our growing environmental engineering practice. This is an exciting opportunity for a motivated professional who shares our commitment to provide innovative, collaborative and sustainable engineering and planning solutions to the challenges our clients face. Hoyle, Tanner is a growing, employee owned, mid-size national consulting engineering firm providing multi-disciplined engineering and planning services to private, municipal, state and federal markets throughout the U.S. Our reputation is one of quality service delivered on time, on budget, and with dedication and loyalty to our clients.

The successful candidate will have 12 or more years of project management experience in municipal water and wastewater engineering services. This highly responsible position requires senior level project management, significant client contact, and technical planning, design, permitting and construction phase services for the water and wastewater engineering practice. Working in our Manchester, NH office the individual will play a key role in growing our business by managing new and existing projects in New Hampshire and other New England states. BSCE and PE license are required. MSCE preferred.

Hoyle, Tanner has an extensive team of professionals who are personally dedicated to delivering creative, cost-effective, results-oriented solutions to planning and design projects and we are proud that our projects play a part in enhancing the communities in which we live and work. If you are interested in joining our team please send your resume citing CAREER CODE MAT10113 to: HOYLE, TANNER & ASSOCIATES, INC., 150 Dow Street, Manchester, NH 03101 or e-mail jhann@hoyletanner.com. Please visit www.hoyletanner.com for more information.



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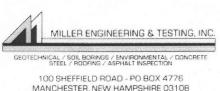


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May ASCE/Granite State Geo-Institute Pavement Design/Construction Seminar

May 18, 2014 ASCE Annual Dinner and Scholarship Night

June 5, 2015 ASCE Annual Golf Tournament

Visit the ASCE-NH Website (<u>www.ascenh.org</u>) for up to date

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Contact Nate Cote (<u>Nate.Cote@swcole.com</u>) for details on upcoming meetings.