



# NH forum

AIA New Hampshire

*For those who shape the built environment*

Enjoying Session VII of the AIA+2030 Series: From left around the table, Jay Purcell AIA; Howie Wemyss, General Manager of the Mt. Washington Auto Road, Lisa Udelsman AIA, Udelsman Associates; Sue Mendleson AIA, The Knickerbocker Group (ME); and David Udelsman AIA, Udelsman Associates. See more on page 11. *Photo by John Hession.*

## Coming in December! A Day-Long Program of Educational Sessions

Presented by AIA New Hampshire on December 11



AIA is holding an Education Day at the Audubon Center in Concord on December 11, just in time for you to catch up on any LUs you are missing for the year. This will be a full day of educational programs, and you may sign up for the morning sessions, the afternoon sessions, or the full day.

Lunch is included with the morning and full day options. You can earn up to 7.5 AIA LUs (5.5 HSW) and attendance certificates are available for non-AIA members. Don't miss this affordable opportunity to learn and earn continuing education LUS: 7.5 LUs plus lunch for \$90.00; \$50

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Articles and graphic submissions should be sent to the AIANH office by the first of the month prior to publication.

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The AIANH Editorial Board reserves the right to edit articles for available space and to review all material for appropriateness prior to inclusion.

The editors of the NH Forum seek to encourage a lively discussion of design and other topics of concern to designers. Opinions and proposals presented in the newsletter are those of the writers to whom they are attributed and are not a statement of official policy by AIANH, unless so stated.

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# Perspective

Point of view from the President of AIANH  
Shannon Alther AIA



Good day. I hope this memo finds you well and that you have at least taken some time today to think.

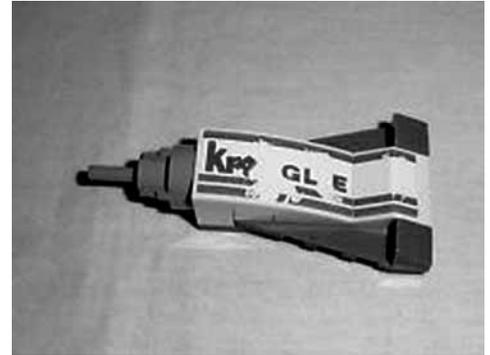
If you have not had a chance to see the recent *LEGO Movie* then you may not get some or all of this article. If that is the case, then you could have some homework to do.

The movie premise: Good lego guy is ordinary but ends up being special. Adventure ensues and new friends aid in the quest to stop the evil Mr. Business. Morgan Freeman voices prophecy, battle occurs, ordinary lego guy prevails, no gluing to occur. Human counterparts exist in a parallel universe and the ending brings both worlds peace...until Duplo comes along (*LEGO Movie 2* coming soon.)

The makers of *The Lego Movie* used an interesting process to create elements for the movie. In the concept of Krazy Glue they subtracted letters to create a new word and thereby a new element in the movie, "Kragle."

To test this concept out I took the words "Lego Movie" and removed the same letter

**The makers of *The Lego Movie* used an interesting process to create elements for the movie.**



**KRAGLE = KRA - - GL - E = KRAZY GLUE Amazing design concept that totally made the LEGO Movie and brings a deeper meaning to ordinary words.**

locations to get "Legove," which turns out to be an old European name. I then took the word architect, subtracted the same letter locations and got "arctet." It turns out this is an actual word too.

KRAGLE = KRA - - GL - E = KRAZY GLUE — Amazing design concept that totally made the movie and brings a deeper meaning to ordinary words.

LEGOVE = LEG - - OV - E = LEGO MOVIE — Ancestral name possibly from England, Wales or Scotland, [www.ancestry.co.uk/name-origin?surname=legove](http://www.ancestry.co.uk/name-origin?surname=legove).

ARCTET = ARC - - TE - T = ARCHITECT — \*Third-person singular, <http://en.wiktionary.org/wiki/arctet>. "He draws at his desk daily." (The subject pronoun "He" is Third Person, Singular).

Everything is Awesome. ■

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# Emerging Professionals Network

Point of view from the AIANH Associate Director & EPN Chair  
Matt Lawton Assoc. AIA



## NCARB and Change:

The internship procedures are about to change again, further enticing those who have had difficulties getting licensed in the past. In

September, NCARB released information regarding the changes coming to the Intern Development Program. As part of their studies, several statistics came to light. Currently, IDP requires completion of 5,600 hours, documented in 17 core experience areas. 3,74

## Important Changes to the Intern Development Program and new ARE Guidelines and Exam Guides

hours are required in the experience areas, with the remaining 1,860 hours as elective hours that can be applied beyond the minimum requirements. With an average work-week of 40 hours a week, IDP should take an intern approximately 2 years, 8 months to complete. Statistics have shown that it takes the average intern five years to complete, and another 2.2 years to complete the Architect's Registration Exam, totalling an average of more than 7 years to earn licensure.

The first phase of NCARB's changes to IDP is to eliminate the 1,860 elective hours, requiring interns to document only the 3,740 hours in the 17 core experience areas. This reduction will enable the average intern to complete IDP in roughly three to four years. The Board of NCARB anticipates that with these changes, registration will be reduced to five or six years. This implementation needs to be approved by the state boards, as it will streamline the experience requirements for licensure, and will need to be written into their laws or rules. These changes are expected to be implemented on or before June 2015.

The second phase looks to realign the framework of the experience categories from 17 core areas to 6 experience categories, reflecting the six general areas of practice. These areas are Practice Management, Project Management, Programming and Analysis, Project Planning and Design, Project Development

and Documentation, and Construction and Evaluation. These changes will mirror the six divisions of the future version of the licensing exam. The changes will be mapped between the existing requirements and the new format, which should be introduced by mid-2016, before the launch of ARE 5.0.

Another major change to the licensing procedure happened on October 1. For those who have failed a section of the Exam, the re-take period has shortened from six months to 60 days. This change should allow candidates to complete the exam procedure in a shorter period of time. At the beginning of October, new ARE Guidelines and Exam Guides were released, so please review the changes, and how they may affect you!

*If you are interested in submitting ideas for future EPN programs, have thoughts about the future of the profession as a young architect, like to be added to the email list or would like to get involved, we'd love to hear from you. Send your email address to [mlawton@connollybrothers.com](mailto:mlawton@connollybrothers.com). ■*

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## Details...

**North Branch Construction, Inc.** has begun construction of a facility on Broken Bridge Road in Concord to serve as a Training Center for Liberty Utilities. **CMK Architects** is providing design for the Training Center, which will be completed in May 2015.

The new 6,000 square foot, two-story masonry and steel building will contain two classrooms with SMART Board technology. The open training bay will include telephone poles for linesmen training and will also have several pieces of mock equipment that Liberty Utility employees will train with including transformers, gas ranges, air compressors, boilers, steam systems, pal-lor heaters, switching modules, and power panels. The center will also have an area designated for gas leak detection training. This building is the first of its kind for Liberty Utilities, with all training consolidated into one location.

NH Firms won awards at the recent 2014 New Hampshire Home Builder's Association Cornerstone Awards. Presented yearly to recognize excellence in the building industry, the Cornerstone Awards provided an opportunity to showcase residential and commercial work across 50 different categories.

**DeStefano Architects (DJA)** was honored five times. On the commercial side, they received a Silver Award for Ristorante Massimo in Portsmouth and a Gold Award for the Administration Building at the YMCA's Camp Belknap. In the residential categories, DJA took home three Gold Awards for Home Office, Interior Living Room space, and Home Renovation over \$500k.

**Warrenstreet Architects** received four awards. Hudson Senior Center, The Friendly Kitchen, Building on Hope - Opportunity Networks, and Manchester Community College Welding Lab Addition were the winning projects.

**Milestone Engineering & Construction, Inc.** has recently completed a major expansion to the Concord Country Club of Concord. The work entailed removing the existing lounge and ladies locker room, and constructing a new lounge, family dining area, ladies locker room, men's locker room facilities and meeting room. The project was designed by Weaver + Associates Architects of Belmont, MA.

## Job Opportunities, Positions Sought

Job listings and positions sought listings are on the AIANH website: [www.aianh.org/careers](http://www.aianh.org/careers). To submit an ad, please email ad text to [office@aianh.org](mailto:office@aianh.org). Job opportunity listings are free for AIANH members and \$80 for four months for non-members. Listings for Positions Sought are free for everyone. Please include your contact information with your ad listing.

### Submit Your Details...

Do you have an interesting job on the boards or one that is newly completed? How about a new hire, a promotion at your firm, or someone had a baby? Maybe you've recently received an award or had your project featured in a magazine?

Send us the information and we'll print it in our "Details..." columns. Email to [office@aianh.org](mailto:office@aianh.org). Photographs can also be used (300 dpi).

# San Gimignano — A Step Back in Time

Part I of a Series

Text & Photos by Bruce Hamilton AIA



On September 21, I visited the small medieval village of San Gimignano in the Province of Siena, Italy. With its distinctive skyline, it stands like a medieval mirage on its hilltop, with fortified walls built in the 13th century and 14 surviving medieval towers. At first glance, San Gimignano looks much as it must have more than 700 years ago. Within its walls, the well preserved buildings include notable examples of Romanesque secular and domestic architecture.

After meeting our tour guide, we embarked on an enjoyable journey stepping back in time through the main entrance leading into San Gimignano. Built in the mid-13th century, the entrance gate has a flat arch and at the top, a look-out tower with six arches. Upon passage through the porta, we entered Via San Giovanni, a street flanked by beautiful medieval buildings and shops which sell local agricultural and crafted wares.

Where the street broadens a bit, there is a Romanesque church, San Francesco, of which only the façade remains. It is built entirely of stone and characterized by a series of small arches with tall columns and decorated capitals. Above the door is the Cross of the Knights of St. John of Jerusalem. Today, the

**Within its walls, the well preserved buildings include notable examples of Romanesque secular and domestic architecture.**

former church houses a shop specializing in the local wines including the famous Vernaccia.

As we continued walking through Via San Giovanni we observed the Arco dei Becci which leads into the impressive Piazza dell Cisterna, originally lined with workshops and taverns. Here the medieval architecture has maintained its significant forms. Even the atmosphere is one of the Middle Ages. On the south side of the piazza is the Casa Piazzini with its two double-lighted windows surmounted by a tower. On the north side of the piazza is the XV century Palazzo Cortesi-Loggi, which today houses the Marto dei Paschi Bank and the Hotel Leon Bianco. In the middle of the piazza there is an octagonal travertine well.

Our breathtaking excursion ventured on to the Piazza del Duomo, adjacent to the Piazza della Cisterna, which together comprise the village center. The piazza is surrounded by towers, palaces, and the impressive stair-



**Porta Senese,  
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Above from left: Porta San Giovanni – Inside, Piazza della Cisterna

case which leads to the Duomo with its Campanaria Tower. The Basilica of the Assumption of Mary in the piazza is one of the most outstanding examples of Romanesque architecture in Tuscany. The interior walls of the Basilica are entirely decorated with frescos. What can be admired is a structure with three naves and Romanesque stone columns, which support seven-circular arches.

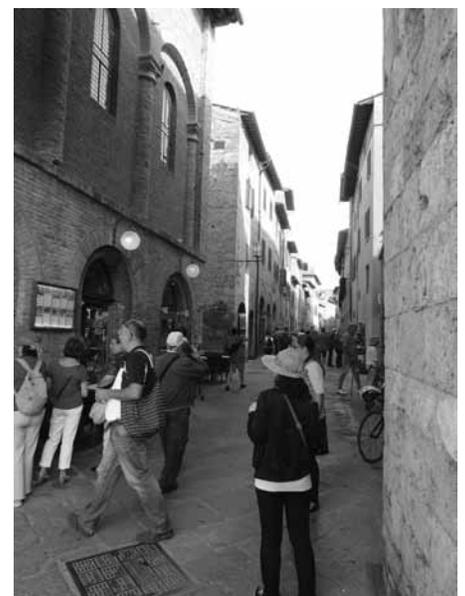
The journey resumed along a street (Via Cellolese) where we entered the piazza Sant' Agostino. A church in the piazza, Sant' Agostino houses a community of Augustinian friars. Built between 1280 and 1289 in the Romanesque-Gothic

style, it has a very simple exterior façade. The interior consists of a single nave dominated by a seventeen-panel fresco cycle on the “The Life of St. Augustine,” a trussed ceiling, and three ogival apses. On the floor, there are eight 14th century grave markers. The Chapel of San Bartulo is located to the left of the entrance consisting of a jewel of mid-15th century architecture and sculpture. It is decorated with a beautiful marble alter, embellished with fine bas-reliefs.

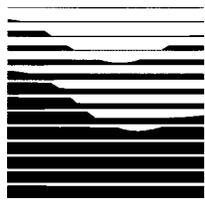
This is where our magnificent walking tour in San Gimignano, one of the best preserved medieval towns in Italy, came to an end. This famous walled medieval

village awaits the visitor eager to climb one of its famous towers, visit one of the many churches, or just stroll along the narrow streets beholding the many craftsmen’s workshops. Despite the passing of the centuries, San Gimignano has managed to preserve its medieval architecture and charm. Today, it is one of Tuscany’s greatest small treasures. The “city of the beautiful towers,” as it is often called, has been recognized as a UNESCO World Heritage Site. Before leaving this magical village, I enjoyed a gelato in the best ice cream shop of the area, located in the Piazza della Cisterna. ■

Below from left: Street – Via San Giovanni, Altar at the Sant' Agostino Church, Entrance to Piazza del Duomo



## GRANITE STATE LANDSCAPE ARCHITECTS



GSLA

New Hampshire  
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American Society  
of Landscape Architects

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# Park(ing) Day & GSLA Strategic Plan

by Jennifer DiNovo

On Friday, September 19, only one day before the GSLA Executive Committee met with Barbara Drobbins of ASLA to complete their first-ever Strategic Plan as the NH Chapter of the American Society of Landscape Architects, they checked off one of their largest impending goals: joining the nation on PARK(ing) Day. PARK(ing) Day is an example of how GSLA plans to meet Advocacy and Awareness goals as part of the new Strategic Plan and Objectives. GSLA plans on releasing the full Strategic Plan to its members later this year.

## PARK(ing) Day

PARK(ing) Day is an annual worldwide event during which artists, designers, and citizens transform metered parking spots into temporary public parks (<http://parkingday.org>).

For PARK(ing) Day the Granite State Landscape Architects sponsored a parklet space in front of the Smile Building (home to the Greater Concord Chamber of Commerce) at 49 South Main Street in Concord. Representatives from the GSLA and several gracious volunteers began working around 6:30 in the morning to transform a 9 x 15-foot parallel parking space into a "Park," complete with sod, trees and shrubs, and unique seating/furnishings. The installation was removed at 6 pm. Thanks to **Pellettieri Associates** for their assistance with labor in setting up the space for Parking Day.

According to the Concord Monitor:

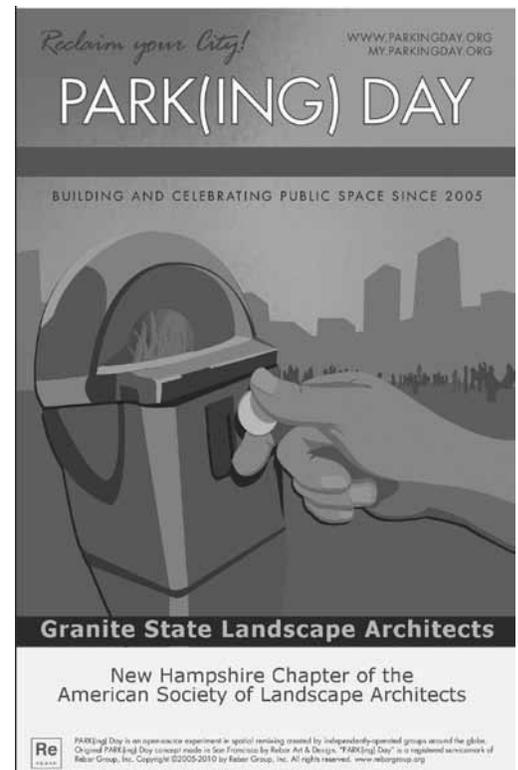
*The sitting space – complete with an outdoor lounge chair – was all donated for the day in celebration of PARK(ing) Day, an idea hatched in San Francisco in 2005 that sought to remind people that the city was built for them, not necessarily the private commercialization that took over. The event, held each year on September's*

*third Friday, spread to 975 installations in more than 160 cities on six continents by 2011, the last year its creators collected data.*

*This year was the first time Concord participated, said GSLA President Susanne Smith-Meyer. She spent \$11 on an all-day permit that allowed her to occupy a space in front of the Greater Concord Chamber of Commerce and organized donations to be borrowed for the day from Tuckahoe Turf Farms, Millican Nurseries and Landscape Forms.*

*Early on a frosty morning, no one decided to stop and sit in the 35-degree shade. But as the day went*

*Continued on page 7*



**PARK(ing) Day in Concord,  
sponsored by GSLA.**



**PLAN NH**  
Visioning for Sustainable Communities

## Notes from Plan NH

by Robin LeBlanc

Plan New Hampshire, The Foundation for Shaping the Built Environment (Plan NH), is a 501(c) 3 non-profit organization formed in 1989.

Our purpose is to contribute to the quality of life in New Hampshire communities by promoting excellence in sustainable planning, design and development of the built environment. We are also strong champions of Smart Growth.

Our New Hampshire-focused membership is comprised of architects, landscape architects, engineers, planners, contractors and others with an interest in promoting and implementing environmentally, economically and socially sustainable communities. This diversity of membership brings a unique variety of views and perspectives to our approach to shaping New Hampshire's built environment.

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**P**lan NH is pleased to announce that we, in partnership with NH Cooperative Extension and the City of Franklin, are the recipients of a coveted Citizens Institute for Rural Design (CIRD) grant for 2014-15.

The project, still being shaped as this is being written, will address the question, "How can Franklin be a good community in which to live, work, learn and/or play for everyone?" That is a broad charge, and much is already being done to address that.

A large part of our focus will be on the question What might Franklin do to foster and support aging in place? We will look at services, places to live, transportation and, of course, community design. With New Hampshire's rapidly growing population of people with gray hair, this is an especially important project, and our intention is to use this as a model for other communities in the Granite State. We will have the resources, through the CIRD grant, of professionals from across the country who can advise and inform us in this new arena. Stay tuned for updates.

Town Center revitalization continues to be a theme of our charrettes: we recently completed one in Greenfield and another in Chichester. We are finding (through these and other charrettes, as well as other work that we do) that this is the visible aspect of a desire to get back a sense of community – by redefining the town's center as a start (or, in some cases, creating or re-creating a town center). That unique sense of place is critically important to a community's collective psyche.

Which leads to the notion of collective com-

munity vision: In many towns, we are finding that there is none – that they have rarely, if at all, gotten together to talk about what they want for their (collective) future. "Preserving our rural character" is about all they can say – but there is so much more. Plan NH has developed a workshop to serve as a foundation for discussion about shifting the conversation to think in a different way about the future of the community. To learn more, give Plan NH a call, or check the website. We can come to your town.

We recently attended the Healthy Eating Active Living (HEAL) NH conference in Meredith. Already having completed some great projects in several NH towns to address healthy activity and access to healthy food (with the goal to reduce obesity), their initiative (called Healthy People Healthy Places) over the next five years is to focus on access to safe, active transportation and places to be active recreationally, as well as access to healthy food. This is being addressed not just through the public health sector, but through a large (and growing) network of organizations working together for a collective impact.

For the first five years, they will use the equity lens – who really needs access to these the most (who are not currently able to)? In our work, we would begin with: Who can most benefit by being able to safely walk, bike, or wheelchair to jobs, school, food, or more? Complete Streets is a strategy of the Active Transportation Group (of which we are a part) and through our work at Plan NH we will continue to encourage communities to provide some variation thereof. After all, it is not just only fair for those who do not drive, but necessary. ■

### *PARK(ing) Day, Continued from page 6*

*on and the sun shined, Smith-Meyer said, it started to attract visitors who appreciated having a space of their own on Main Street.*

*"My favorite thing was when the woman came up and said, 'Can't we keep this here all fall?'" Smith-Meyer said.*

For more information on PARK(ing) Day, visit

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

GSLA plans on working with more New Hampshire cities in September 2015 to create several more temporary parklet installations. We welcome volunteers to collaborate with us on this effort in 2015! Please contact GSLA at [gsla.online@gmail.com](mailto:gsla.online@gmail.com). ■



# AIA+2030: Prepare for the New Energy Future...Session VII Recap

by Dale Doller AIA, LEED AP



## Session VII, October 16, 2014 — Right Sized: Equipment and Controls for Super-Efficient Building Systems

The 2030 Challenge encourages us to make a better environment by making better choices in our designs and to improve energy efficiency and reliance on non-renewable fuel sources. I hope you find this followup insightful and a helpful reminder of the session experience!

We offer our thanks to our presenters, **Dan Lewis, PE**, founding partner of Kohler and Lewis Engineering in Keene, NH, and to **Chris Schaffner, PE, LEED Fellow**, founder and principal of The Green Engineer, Inc. of Concord, MA. We are grateful for their expertise, which informed us and is helping us make good choices for our clients in our ever changing environment!

Simple Is Better than Complex, Manual Is better than Automatic, Less Is better than More, Passive Is better than Active – those were the opening slides Chris Schaffner shared. I think those are a great summary of the principles for success in energy-efficient

design. Every project may respond differently to these ideas, but evaluating them plays an important part in project decision making for energy efficiency.

Chris also shared the following topics as a strategy for success: Reduce Demand, Harvest Site Energy, Maximize Efficiency, Building Commissioning, and Ongoing Operations & Maintenance. We need, as one of our first steps in the building project, to consider and review the importance of these principles and strategies. They play an important factor in the project's efficiency and in sizing our building systems. They play an important part of right-sizing our building systems.

We were told that "Right-Sizing" is matching capacity to actual building loads, matching systems to actual operations, and designing systems for the typical day, not the extreme (for the 90%, not the 10%). And



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Each session includes time for questions, hands-on exercises, technical presentations, and review of case studies. Above, Karen Schacht AIA, from Harriman and Steve Hebsch from JSA Inc.

Photo by John Hession.



The team for Session VII of the AIA+2030 Series: Presenter Chris Schaffner PE, LEED Fellow; session organizer and AIANH Executive Director Carolyn Isaak Hon. AIANH; and presenter Dan Lewis PE.

Photo by John Hession.

when we “Right Size” our design, we reap the potential benefits of lowering the capital costs of smaller systems. We reduce the energy consumption of our buildings by properly sizing systems. Systems equipment will last longer since they are running as they were designed to operate. We can improve our clients comfort and their indoor environmental quality by proper systems operation. The systems will be smaller and more efficient, which will result in less space for building systems thereby reducing building area and saving capital cost.

In getting the system sizing right, the whole team needs to be able to interact with each other and ask all the right questions. The risks of not communicating will result in assumptions being applied, succumbing to rules of thumb, and missing important design criteria. Unknown conditions will result in over-designing to insure the building will operate later for the owner but not at the

optimal efficiency. As Chris shared, “nobody ever got fired for oversizing a system.”

Energy modeling is a very important tool in attempting to anticipate the buildings true operation in the future. We need to model our projects very early in the programming stage if we are to “Right Size” our project to be energy efficient. This provides us the opportunity to test out the best systems and how they will relate to our overall building cost. They will establish early design parameters. And then we must model again as the building takes a form to verify our decisions and choices have been properly applied. Modeling only after the building is designed is a useless waste of time in “Right Sizing” design. It will surely result in under or over sizing and very expensive redesign time and loss of design fees.

Chris also shared with us these key emerging design factors to consider. “Local climate conditions” play an important role in our decisions relate to design items such as daylighting and alternative energy production like photovoltaic and wind generation. The “architectural design” will affect systems by how energy efficient the envelope is, by the building orientation, form and complexity and materials used. “Design criteria” and “internal energy” loads need to be considered

*Continued on page 14*

**Thank you to our  
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*Preparing architecture and engineering professionals for the new energy frontier.*

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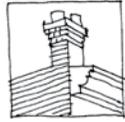
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Chapter Meeting  
at Smuttynose Brewery



## AIANH's ARCHtoberfest is a Hit



Eighty AIANH members and guests attended AIANH's October 9 Chapter Meeting hosted by Smuttynose Brewery in Hampton, NH. Owner Peter Egelston and representatives from **McHenry Architecture** gave a presentation about the design and construction of the building.

The fourteen-acre property and former site of the historic Towle Farm was transformed into a state-of-the-art brewery complex. Integral to the design of the brewery is the preservation of the existing barn for future use and the relocation of the Victorian era farmhouse to be renovated for use as a restaurant along the eastern slope of the site. The landscape design features rain gardens to help control storm water runoff and the restoration of the old apple orchard on the site.

The facility includes an onsite renewable energy system, powered by the recycled waste product of the brewing process. An anaerobic biomass digester tank captures waste water from brewing and produces methane gas that powers an on-site electric generator. The system also lowers the overall organic content

of the wastewater, lessening its impact on the municipal sewage system. Integration of the hot water used for the brew process with the building mechanical systems. Heat and cool-

*Continued on page 14*



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**McHenry Architecture's Brandon Holben AIA, far right, speaks to the crowd at our ARCHtoberfest at Smuttynose Brewery.**

# Structural Column

by Jeff Karam PE



**Why are things the way they are?**

There are a few things in structural engineering's naming conventions which seem to demand an explanation or, as often is the case, a history lesson.

Most obviously there's the naming of dimensional lumber and the actual size of dimensional lumber. We all know that a 2x4 is not actually 2" x 4". Why is that? Well, 2x4s were 2" x 4" when they were rough cut at the sawmills. Eventually the ability to make the surfaces smooth and the desire to have them smooth resulted in the 2x4 of today. Today, if you wish to have a piece of lumber that is say, 4"x10" for an exposed timber, you only need to ask for a "full sawn 4x10." In our area, many of the buildings around us are older so it's not uncommon to find members that are "real" sizes. I enjoy seeing these hefty studs and beams because I enjoy the uniqueness and I enjoy becoming part of the structures' long history.

Reinforcement also has a naming convention which has an interesting past. It seems easy enough that reinforcement is named for the diameter in 1/8", meaning a #4 has a diameter of 4/8", or 1/2". But, the naming is based upon the diameter of a "plain" bar while usually "deformed" bars are used today. "Deformed" refers to the protrusions which help keep the bar from moving relative to the concrete surrounding it and a

"plain" bar is just that, a straight rod with no bumps or patterns. The deformations became typical of rebar much later than the naming was established. It is noteworthy that a "deformed" #4 has the same weight per foot as a "plain" #4 but does not have the same diameter. Finally, the X/8 rule is only good through #8 bars. Large rebar sizes are a soft conversion of what were once square reinforcement bars. The area of a #9 matches the area of a 1" square bar. Thus, a #9 does not have a diameter of 9/8".

Nominal bricks in the US are typically 7 5/8" x 3 5/8" x 2 1/4". These dimensions combined with the intended thickness of the mortar result in essentially 8" x 4" and allow for easy dimensioning. Sizes have varied over time and vary by countries. A little bit of research into brick sizes led me to discover an amusing piece of British history, a "Brick tax." Seeking to fund war debts the English government instituted a brick tax. At first the tax was simply per brick. So, clever people decided to make bricks bigger. Eventually the government set the maximum brick size at 10" long by 5" wide by 3" high. Bricks larger than this were taxed double. Today, the standard brick in England is smaller than this but it is still bigger than US bricks.

Thank you for reading. If you have comments or suggestions for future columns relating to the practice of structural engineering please contact me via [jeff@evergreenstructural.com](mailto:jeff@evergreenstructural.com). ■

— Jeffrey Karam PE is the principal of *Evergreen Structural Engineering, PLLC*, [www.evergreenstructural.com](http://www.evergreenstructural.com)

## Details...

Matthew Giffin is the newest member of **Banwell Architects**, joining the firm in October. Matt is a graduate of Norwich University where he received his M.Arch degree in 2008. His experience includes carpentry, residential design, consultation of architectural systems, and in his past life worked for a study abroad program coordinating semester long architecture programs located in Berlin, Germany.

Originally built in 1912, residents of the Stafford House in Laconia will soon be living in a more energy-efficient, safe, and comfortable building, thanks to \$500,000 in funding through the Community Development Block Grant Program (CDBG) from the NH Community Development Finance Authority and construction management expertise from Resilient Buildings Group, Inc. (RBG). In addition RBG was able to secure an additional \$120,000+ in funds from Energy Efficiency Programs through Public Service of New Hampshire (electric) and Liberty Utilities (natural gas), and the Public Utilities Commission's Solar Rebate Program.

The building, owned by the Laconia Housing Authority (LHA), has 50 independent-living residential units for income qualified elderly households in its 36,000+ square feet. Energy improvements follow recommendations from an energy audit and include airsealing and insulation in the attic, front entry, roof, hot water heating pipes, airsealing between apartments; installation of 149 triple-pane, low-e replacement windows; LED lighting with "smart" controls in offices, stairwells, community room, laundry, and common areas; a 34.5 kilowatt solar-electric photovoltaic system; and 1.28 gallon toilets which replace the 4.5 gallon existing fixtures. LHA expects to reduce energy use by 29%, saving LHA \$23,500 each year. Moreover, Renewable Energy Credits from their new PV system will bring in an additional \$3,000 each year.

Resilient Buildings Group is a mission-driven for-profit subsidiary of The Jordan Institute, a non-profit organization focused on energy efficiency and renewable energy public policy, program design, and through RBG, project implementation. For more information, visit [www.ResilientBuildingsGroup.com](http://www.ResilientBuildingsGroup.com).

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## Details...

Construction of a Student Success Center on the campus of Great Bay Community College in Portsmouth, NH, designed by **JSA Inc.**, is underway by **North Branch Construction, Inc.** This one-story, 20,000 square foot addition to the existing college will include a gymnasium, administrative offices, a student lounge, an exercise space, and locker rooms. The center will serve as a place for students to engage in leadership activities, develop teamwork, and encourage lifelong learning.

Roland Pothier of Derry has joined the **North Branch Construction** team as a Project Manager/Estimator at the company's headquarters in Concord, NH. Pothier, a Wentworth Institute of Technology graduate, has many years of experience managing construction projects throughout the New England area. For over seventeen years Pothier owned his own residential construction business based out of Derry, and has previously held the position of President of the Southern New Hampshire Builders Association.

With hard hats and safety glasses in place, over 1,000 high school students from throughout the state of New Hampshire met at the Hillsborough County 4H Youth Center in New Boston on September 18-19 for the 6th Annual NH Construction Career Days (CCD). The program, spearheaded by the Granite State Chapter of NAWIC (National Association of Women in Construction) as a one day event in 2009 with 350 students, has grown into a 2-day event with over 650 students each day. North Branch has participated in the program since it's inception. The program gives students a hands-on look at various career opportunities available to them in the construction industry. **North Branch Construction** was one of the 65 exhibitors and provided construction safety and terminology games, information about potential opportunities available for employment with a general contractor and a hands-on challenge for students to learn how to install a door lock set and dead bolt, racing against each other for the fastest install time.

# NH Encourages Local Food & Farming

Free book available from download



Governor Maggie Hassan has signed into law SB-141 – Granite State Farm to Plate (RSA 425:2a), declaring it to be the policy of the State of New Hampshire to encourage and support local food and farming, and the processing of the product of local food and farming, wherever it occurs throughout New Hampshire.

In honor of this event, you can receive a new book, *Live Free and Farm: Food and Independence in the Granite State*. Written by UNH Professor John Carroll in service to

the people of New Hampshire, and colorfully illustrated by New Hampshire artist Linda Isaacson, *Live Free and Farm* paints a picture of New Hampshire as it has been and as it can be: a more self-sufficient and independent state fed more by its own farmers, gardeners and fishers, and thus a healthier state – physically, economically and politically.

Download free at: <http://content.yudu.com/Library/A32btg/LiveFreeandFarmFooda/resources/index.htm?referrerUrl=http%3A%2F%2Fnre.unh.edu%2Ffaculty%2Fcarroll>. ■

**“Prof. Carroll offers plenty of evidence to convince me that New Hampshire has the necessary tools to move toward far-greater food self-sufficiency, perhaps most important being a fairly affluent population and a fine university with the research and teaching capacity to undergird the science and business sides of farming. It has neighboring states that have already tested many strategies to expand local food production and there is also compelling evidence of consumer interest in the form of an explosion in numbers of farmers’ markets.”**

— Steve Taylor, New Hampshire Commissioner of Agriculture, Food and Markets, 1980-2005

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## Student Housing in Durham on the Rise



Construction of an 86,000 sf private student housing project designed by **DeStefano Architects** is underway and slated to open in the fall of 2015.

The 197-bed project in downtown Durham is a short walk to the University of New Hampshire and is a partnership between DeStefano Architects and Orion Student Housing. Realtors confirm there is a need for more student housing in Durham. Students who are not living in dorms are often forced to live in surrounding towns and commute to classes because of the lack of available off-campus housing.

DIA Director of Operations Adam Wagner AIA, with 15 years of experience in the student housing market, spearheaded the project. He says the planning process in Durham took two years, receiving unanimous approval from all the local land use boards. Says Wagner, "The greatest challenge of this project was incorporating the amenities that today's students are looking for within a historic New England village. The result is a project that compliments traditional architectural style, yet offers the latest in student housing trends and advanced technology integration."

There are six buildings on the site, located directly on Main Street. Durham, NH Police Chief Dave Kurz supports the Orion Student Housing project saying well-managed student apartment dwellings are key to a peaceful town: "This is an appropriate location due to the proximity of other student dwellings,

distance away from residential neighborhoods with fewer residents to disturb, and in an area of the downtown where late night activity is prevalent."

Orion says their leasing company began hearing from students interested in renting the units before construction started and they pre-leased the entire facility for the fall 2015 Semester in less than 36 hours.

Privatized student housing is a growing trend. Developers are capitalizing on the desire of parents and students to find well-managed, clean and secure living quarters. Observers say one factor involved is the growing percentage of college students who are female. According to Pew Research Center, there are 13 percent more women than men enrolled in college.

At Orion Student Housing the units are more akin to apartments than dorm rooms, with each bedroom containing a private bath. The units are fully furnished and share a living room, kitchen, and laundry room. There are granite counters and stainless appliances. There is also 24-hour security. The technology infrastructure is being provided by Pavlov Media and will be state-of-the-art.

Other participants in the project include The Dolben Company, who is serving as the owner's representative, **Fulcrum Associates Construction Managers** and engineering firms Wozny Barbar Associates and Allen & Major Associates.

For more information please visit [www.DeStefanoArchitects.com](http://www.DeStefanoArchitects.com). ■

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## Grants to Improve Energy Efficiency of U.S. Commercial Buildings

The Building Technologies Office (BTO) Commercial Buildings Integration Program has announced the availability of nearly \$9 million for Funding Opportunity Announcement (FOA) DE-FOA-0001168, "Advancing Solutions to Improve the Energy Efficiency of U.S. Commercial Buildings." The FOA encourages investments in energy-saving upgrades that can be widely adopted in offices, shops, restaurants, hospitals, hotels, and other commercial buildings.

This funding opportunity seeks to support 5-10 projects that will increase energy savings in commercial buildings by accelerating in the marketplace the use of tools, solutions, and resources the Department has developed to help commercial building owners, managers, and professionals overcome barriers to efficiency.

The link for more information and to apply is: <https://eere-exchange.energy.gov/default.aspx#Foaldf54c4e14-4401-4f2a-ae06-4e832525be08>.

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### EDUCATION DAY *Continued from page 1*

for emerging professionals. (Different rates for half days.)

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- Finishing Touches: Enhancements, Options and Trends for Windows and Doors
- Conceptual Modeling with Autodesk "Formit"
- Hazardous Waste Materials (Lead, Asbestos, Mold, PCBs etc.) — What Architects Need to Know
- Decentralized High Efficiency Ventilation
- Evaluating Floor Performance
- Continuous Wall Bracing by the 2009 Code
- Three Steps to Energy Analysis with Autodesk Revit

We hope to see you there. Register today at <http://www.aianh.org/news/aianh-events>. ■

### SMUTTYNOSE *Continued from page 10*

ing that would normally be wasted during brewing supplements building systems. The building makes use of extensive daylighting and on-demand LED high bay lighting with occupancy and pv sensors. Public and work areas are all designed to accessibility standards.

The building is targeted for LEED Gold.

Guests were treated to a tour, free beer, and great food with a German theme from Mountain Caterers, including German style meatballs, kielbasa, bratwurst, sauerkraut, German potato salad, and delicious vegetarian and vegan options. Thank you to Peter Egelston and Smuttynose Brewery for hosting t and providing the beer! Thanks to Pella Windows and Doors for sponsoring this event. ■

### SESSION VII *Continued from page 9*

ahead of time for best sizing. "Diversity" was a new term to some of us, relating to the ratio of actual load relative to the peak load. It's evaluating when equipment will be running, non-simultaneous equipment loads, and the timing of actual occupancy of spaces. And, "safety factors" that must be used in the final analysis like building warm up and cool down time, future growth, risk for incomplete equipment information, team design assumptions, and code consideration also add to the final system design decision.

Chris and Dan shared some great case studies like the Putney Field House, a Net Zero LEED Platinum facility; Bennington Vermont State Office Building and Courthouse, a "Sick Building" transformation; and the George D. Aiken Center, an existing university building complete makeover of exterior skin and MEP systems.

Attendees at this series are gaining some great ideas for their next projects. We are asking participants to share what they've learned back at the office and with clients and other design professionals.

We continue to thank our sponsors for their support to this important educational series and their belief and dedication to sustainability. Platinum Sponsor: **Bensonwood**; Gold Sponsors: **Eckman Construction, Milestone Engineering. & Construction Inc, ProCon, RPF Environmental, and Martini Northern**, and Session VII Silver Sponsor: **Secondwind Water Systems**. ■





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# Construction Summary

**Project Type:** Center Strafford Dining Facility Renovations (NH Army National Guard)

**Cost:** \$784,000

**Location:** Center Strafford, NH

**Owner:** State of NH DOT

**Architect:** CMK Architects

**Engineers:** Engineered Building Systems Inc., McGill Engineering

**Gen. Cont.:** Turnstone Corp.

**Project Type:** Cooling Tower & Roof Replacement (Rockingham Courthouse)

**Cost:** \$825,000

**Location:** Brentwood, NH

**Owner:** State of NH DOT

**Architect:** Tennant / Wallace Architects

**Engineers:** DuBois & King Inc.

**Gen. Cont.:** Careno Construction Co.

**Project Type:** Broad Street Parkway - Storehouse No 2 In Millyard

**Cost:** \$347,400

**Location:** Nashua, NH

**Owner:** City of Nashua

**Architect:** Dennis Mires The Architect

**Engineers:** Reno Engineering, Design Day Mechanicals Inc., DL King & Associates Inc.

**Project Type:** FMS Renovation & Addition (Field Maintenance Shop)

**Cost:** \$1,104,500

**Location:** Somersworth, NH

**Owner:** State of NH DOT

**Architect:** AEC Group

**Engineers:** Kirick Engineering Associates, ENGVT-13, Summit Engineering

**Gen. Cont.:** Careno Construction Co.

**Project Type:** CSMS Renovation/Building H

**Cost:** \$726,350

**Location:** Concord, NH

**Owner:** State of NH DOT

**Architect:** CMK Architects

**Engineers:** Engineered Building Systems Inc., McGill Engineering

**Gen. Cont.:** Schroeder Construction Management

**Project Type:** MOB Third Floor -

Pulmonary & Spec Suites Renovations

**Location:** Rochester, NH

**Owner:** Frisbie Memorial Hospital

**Architect:** JSA Inc.

**Gen. Cont.:** Horne Construction Co.

**Project Type:** Outback Steakhouse

**Location:** Seabrook, NH

**Owner:** Outback Steakhouse-Bloomin Brands

**Architect:** GHA Architecture & Development

**Engineers:** VHB Inc., Lippe & Associate, Ronald Roberts Associates

**Gen. Cont.:** Henson Construction LLC

**Project Type:** Meadow Road Apartments Rehabilitation (18 Units)

**Cost:** \$181,129

**Location:** Keene, NH

**Owner:** Keene Housing Authority

**Architect:** Weller & Michal Architects Inc.

**Contractor:** Cheshire Builders

**Project Type:** West Stadium Addition & Renovations (Cowell Football Stadium) Design Build

**Cost:** (Total Budget) \$22,500,000

**Location:** Durham, NH

**Owner:** University of NH

**Architect:** Lavallee/Brensinger PA

**Const. Mgr.:** PC Construction

**Project Type:** New YMCA (Former Old Exeter Jr.High Site)

**Location:** Exeter, NH

**Owner:** Southern District YMCA

**Architect:** Bruce Ronayne Hamilton Architects

**Engineers:** Altus Engineering Co., Environmental Design Engineering, Summit Engineering

**Gen. Cont.:** Jewett Construction Co. Inc.

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**Project Type:** New England Center Renovations for UNH Advancement Services

**Location:** Durham, NH

**Owner:** University of NH

**Architect:** Manypenny Murphy Architecture

**Const. Mgr.:** Milestone Engineering & Construction

**Project Type:** Morrison Nursing & Skilled Care Facility Addition

**Location:** Whitefield, NH

**Owner:** Morrison Hospital Association

**Architect:** EGA Associates, Newburyport MA

**Engineers:** Horizons Engineering, Reno Engineering, McGill Engineering, Shelley Engineering

**Const. Mgr.:** Bonnette Page & Stone

**Project Type:** Webster At Rye Retirement Facility Additions & Renovations

**Location:** Rye, NH

**Owner:** Webster At Rye Health & Retirement-

**Architect:** EGA Associates, Newburyport MA

**Engineers:** Altus Engineering Co.

**Const. Mgr.:** Bonnette Page & Stone

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## Calendar of Events

**Nov 19** NH Energy Code Challenge: Residential Workshop, Rodgers Memorial Library, Hudson, NH, **6 AIA HSW LUs**. Register at: [www.nhenergycode.com](http://www.nhenergycode.com)

**Nov 19** Universal Design 101, Plan NH hosts a workshop to raise awareness of how we need to factor in, in our planning, design and development of the built environment, mobility, sensory and cognitive challenges most of us will face at some point; East Conference Room at NH Housing. 32 Constitution Drive, Bedford NH. **2 AIA HSW LUs**. Go to: <http://events.r20.constantcontact.com/register/event?oeidk=a07e9wq5bmga3846ad0&llr=zsahawcab>

**Nov 20** Session VIII, AIA+2030 Professional Series, Site Power: Renewable Energy Opportunities, **4 AIA HSW LUs**, [www.aianh.org/news/aianh-events](http://www.aianh.org/news/aianh-events)

**Dec 4** NH Energy Code Challenge: Commercial Workshop, Schiller Station, Portsmouth, NH, **6 AIA HSW LUs**. Register at: [www.nhenergycode.com](http://www.nhenergycode.com)

**Dec 11** AIANH Fall Education Day, Audubon Center, Concord, 8:30 am to 5:30 pm. Join us for AIANH's popular Education Day, just in time to earn more LUs by the end of the year! **Up to 7.5 AIA LUs available (5.5 HSW)**. Courses on "Conceptual Modeling with Autodesk Formit," Continuous Wall Bracing, Energy Analysis with Autodesk Revit, Floor Performance, and more. Sponsored by **Pixate Creative**. Info and registration at [www.aianh.org/news/aianh-events](http://www.aianh.org/news/aianh-events)

**Jan 22** Session IX, AIA+2030 Professional Series, The Hand-Off + Staying in Shape: Operations, Maintenance + Education, **4 AIA HSW LUs**, [www.aianh.org/news/aianh-events](http://www.aianh.org/news/aianh-events)

**Jan 23** 31st Annual AIANH Awards Celebration. Join us for our Awards Banquet at LaBelle Winery, Amherst, NH. This is a time of celebration...of architecture and of Chapter activities. All submissions to the Design Awards program will be on exhibit and will be featured in a running slide show. Join us for what is always an enjoyable, entertaining evening! **Sponsored by Spaulding Brick Co. and Charron Lighting Inc.** Info and registration at [www.aianh.org/news/aianh-events](http://www.aianh.org/news/aianh-events)

**Feb 1-3** Getting to Zero National Forum, Fairmont Hotel, Washington, DC. [www.gettingtozeroforum.org](http://www.gettingtozeroforum.org)

**Feb 26** Session X, AIA+2030 Professional Series, Putting it All Together: Achieving 2030 on the Project and in the Office, **4 AIA HSW LUs**, [www.aianh.org/news/aianh-events](http://www.aianh.org/news/aianh-events)

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## Photo of the Month

Rodin Museum, Paris  
by Chris Carley AIA  
CN Carley Associates

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