

NH FORUM

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Preparing for the New Energy Frontier

AIANH Launches the AIA+2030 Professional Series™



Credible scientists give us 10 years to be well on our way toward global greenhouse gas emissions reductions in order to avoid catastrophic climate change. Fifty percent of those greenhouse gas emissions can be traced to buildings. With proper tools and training, architects can make a big difference.

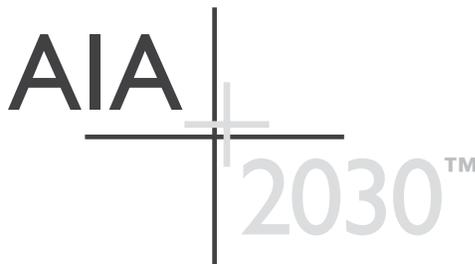
To impact the threat of climate change, Architecture 2030®, a non-partisan, national not-for-profit started by renowned architect Ed Mazria FAIA, has issued the 2030 Challenge® asking the global architecture and building community to reach the goal of carbon-neutral buildings by 2030.

AIANH has adopted this challenge and along with the Environmental Guild is taking a step toward that goal by offering the AIA+2030 Professional Series, beginning March 2014.

The AIA+2030 Professional Education Series was developed through a partnership between Architecture 2030 and AIA Seattle. The program is a yearlong, 10-part professional course in the design and technology applications needed to produce highly-resilient, carbon neutral buildings. AIA+2030 gives design professionals the knowledge to create next-generation, super-efficient buildings – and provides firms with the skills that will set them apart in the marketplace.

Sessions assume participants have an intermediate understanding of the suite of energy efficiency strategies and technologies available to a design professional. Session information is cumulative and aims to provide an overall understanding of specific design strategies and how they can be integrated to provide optimal

results. Regional case studies will illustrate concepts and lessons learned. Experts from both academia and active practice will lead the sessions. Participants will be provided tools to take back to their firms to help share and implement the knowledge and skills gained.



The courses address items such as Waste Heat Recovery, Energy Modeling, Active Solar Systems, and a variety of techniques and strategies specific to creating the type of buildings we need to be creating in the future.

What makes this program unique?

- National leadership. This is the first program in the nation that teaches the architectural profession specific ways to reduce carbon emissions.

- Specific tools. Many talk about pursuing sustainability and green practices, but it is hard to distinguish talk from action. The AIA+2030 Professional Education Series™ provides tools, not just theory. These tools have been shown to make a direct impact and the more architects are trained to do this work; the closer we are to reducing the impact of climate change.

- “Green collar” jobs. There is often a divide, real or perceived, between environ-

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Published by

AIA New Hampshire

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NH Forum is published monthly by AIA New Hampshire, the New Hampshire Chapter of The American Institute of Architects, with the Granite State Landscape Architects.

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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 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.

Visit our Website at www.aianh.org

Perspective

Point of view from the president of AIANH



Karolina Burt AIA
President 2013

This summer I had a pleasure of meeting a young Polish architect, Katarzyna Fryckowska, who was visiting her family in New London. She lives and works in Cracow, the most beautiful and vibrant city in Poland, and one of the oldest. Here is what she had to say about the education and the work of a young architect.

Karolina: Tell me about education process of the architect in Poland.

Katarzyna: Every potential candidate to architectural school has to be very good at free style drawing because the exam to the Polytechnic (post secondary educational training) is primarily an exam in drawing abilities. To prepare for the exam while in high school, students take drawing lessons with private instructors or at private schools. The first day of the exam is about drawing groups of geometric shapes to show skill in capturing scale and proportion as well as light and shadow. The second day is more artistic and philosophical; I had to draw a bottle as an expression of a vessel containing life while creating within a structure using geometric shapes from the first day of the exam.

Karolina: What is the competition for the school like?

Katarzyna: When I was taking the exam there were approximately 15-20 candidates for every spot. If you are one of the top 100 you will study for five years at the Polytechnic

tuition free. If you pass but are not part of the top 100 you may pay high tuition for the same program.

Karolina: What is the ratio of women to men at the school?

Katarzyna: There are more women studying architecture than men.

Karolina: What differs in a Polish architectural program from what you know about those in the US?

Katarzyna: We study all technical aspects of architecture: math, construction techniques, CAD as well as history of architecture similar to all architectural programs all over the world.

The Polish schools pay a lot of attention to artistic development of students: visualization and the ability to convey thoughts through drawing.

After both the first and second year of school there is a mandatory one-month long "En plein air" (from French "in the open air"). This is when an instructor takes students to a place away that may be compared to a location based drawing camp. After the first year the focus is on pencil sketches of mostly public spaces like town squares, shopping centers, etc.; seeing the big picture not the detail. Showing people in the built environment, not a crown molding. After the second year students work with oil paints, water colors, or tempera. Following the third and fourth year students are obligated to complete a one month internship in the architects office and one month at the construction site. Both experiences are needed for graduation. These internships are unpaid and considered volunteering.

Continued on p. 12



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Emerging Professionals Network

Point of view from the Associate Director of AIANH



Matt Lawton Assoc. AIA
AIANH Associate
Director

Why Did I Get Into This?

Every year around this time, children are flowing back into schools, and we are all too familiar with the days and nights spent that would follow in studio. While I was in school, I had the opportunity to meet and help inform potential students into the architecture program. One of the questions I would ask each person was, why do you want to study architecture? Over the years, I would get many different answers. Often, I would hear that they got interested in architecture by watching Home and Garden Television, who thought they would be fantastic designers by watching shows about flipping houses and interior design.

I myself grew interested in architecture through television. Many years ago, I had watched Bill Nye the Science Guy, and he had a special on architecture. After completing school and working in the field for a couple years, I stumbled across the episode and decided to watch it again. Sure, it gave me a cursory glimpse into the field, what building design entailed, but I had much to learn that only exposure in offices could teach me. Regardless, watching that episode, researching architecture from there, introduced me to a passion I never knew I had.

I remember asking around my studio when I was in school, and spoke with coworkers about what got them into architecture. We all

know the story of Frank Lloyd Wright, whose profession was determined for him by his mother, growing up with Friedrich Froebel's kindergarten blocks, which would influence his designs throughout his career with the geometric shapes. Many of us can relate to playing with blocks or Legos, perhaps building massive castles, forts, or homes. Maybe you watched too much Brady Bunch growing up, and fell in love with architecture through Mike Brady. Perhaps a new generation will look into architecture because of TV shows like Bob the Builder or How I Met Your

Many of us can relate to playing with blocks or Legos, perhaps building massive castles, forts, or homes.

Mother, because being an architect is cool. Maybe you grew up with family who was in the building profession, either as a contractor or an architect, and you went into the family business. Perhaps you thought that there was money in architecture (which many of us new in the profession are still hoping to find!).

Regardless of what got you here, we're glad you came! Here's to the many years ahead! ■

If you or anyone you know would like to be added to the email contact list, please send a quick email to matt@agarchitects.com and you will be added to our list of announcements.

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. Photographs can also be used (300 ppi).



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CEU Requirements

It has come to our attention that some AIA members have missed the notices about the changes in the SD requirement for **AIA Continuing Education**. A notice was in the January/February NH Forum, emails were sent from AIA and AIANH, and the information is on the website. But we know that there is so much information reaching you everyday, it is not possible to read it all and sometimes some things just get lost.

For a review:

Recognizing that sustainable design practices have become a mainstream design intention in the architectural community, the AIA Board of Directors, at its Dec. 2012 Board meeting, voted to allow the Sustainable Design (SD) Continuing Education Requirement to sunset at the end of 2012.

AIA members no longer need to complete the sustainable design requirement to fulfill their AIA continuing education. For 2013, AIA members are required to satisfy a minimum of 18 LUs per year. Of this total, 12 must meet the Health, Safety, and Welfare (HSW) criteria. (Sustainable Design courses will now fall under the LU/HSW credit designation.)

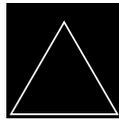
AIA of course remains committed to ensuring that AIA architect members are well informed about and have access to up-to-date sustainable design techniques and business practices so they can best serve their clients and remain on the forefront of the global market transformation. (See story, page 1)

The NH Continuing Education Requirement remains unchanged for now. 24 continuing education units are required over a biennial period; 16 must be in Health, Safety and Welfare and 8 in Sustainable Design. Since AIA has dropped the SD requirement, the licensee can determine by review of the rules which category their HSW courses fall under in regards to fulfilling the New Hampshire requirement. Access the NH Board of Architect Rules at www.nh.gov/jtboard/archrule.htm (see section 403 (b) and (c) for subjects that fall under HSW and SD.) See FAQs about NH requirements at: www.nh.gov/jtboard/archce.htm

Different states have different licensing requirements. Find an interactive map at <http://www.aia.org/education/ces/mcrequirements/index.htm>.

Red Rocks Renaissance

Text and photos by Bruce Hamilton AIA



In an acoustic, open air auditorium more majestic than Carnegie Hall, visitors to the Red Rocks Amphitheater located outside of Denver, Colorado find themselves breathless after the visual inhalation of the naturally crafted theater. The road into Red Rocks offers a vista of hillsides dotted with huge reddish boulders. The road twists and hairpins its way up the mountain to huge slabs of rocks reaching the sky...you feel the rocks and the mountains silently singing. Their songs tell of angels that still visit, for this is a holy place.

Designed by Burnham Hoyt, Red Rocks amphitheater is like no other concert venue on earth. The ancient Greek amphitheater at Taormina on the Southern Italian Island of Sicily was Denver Park's manager, George Crammeis's inspiration for the amphitheater at Red Rocks. The amphitheater resembles an oversized disc that rises away from the stage. Two three hundred-foot monoliths (Ship Rock and Creation Rock) surround the disc

which provides seating for the amphitheater and acoustic perfection for any performance. The dramatic sandstone monoliths serve as a history book of animal and plant life in this area for the past 250 million years. As visitors gaze at the towering red sandstone rocks, they view the ancient tales of prehistoric times. Since 1941, Red Rocks has hosted some of the world's greatest music. Between April's Easter Sunday sunrise service and September's last rock band orgy, a million people gather every year at the Rocks. They trek up to the natural amphitheater for classical, operatic, rock, pop, jazz, punk and country music. They come to see cinema classics, dance and performances ranging from high school graduation to presidential addresses. Red Rocks is Denver's kaleidoscope high note. No matter who is performing at the amphitheater, the great outdoors framed by these gigantic monoliths remain the star. Nature has a way of upstaging human performances here. The folks on stage are often eclipsed by spectacular sunsets, shooting stars and rising

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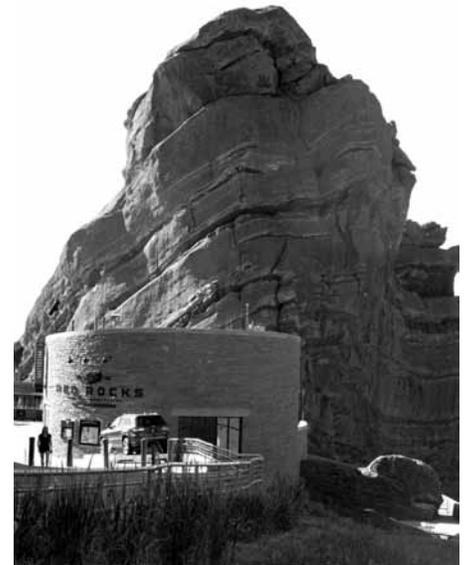
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Red Rocks Amphitheater



Red Rocks Visitors Center

full moons. No performance has yet been louder than the thunder that can rattle the rocks or brighter than the lighting that can turn night into day.

The beauty of the Red Rocks Visitor Center, like that of the amphitheater, lies in its simplicity and understatement. The center is irregularly shaped with an organic, flowing feeling, much like the rock formations. So as not to visually intrude on the natural and historic views, the design does that by placing 97 percent of the structure underground.

Besides music rockers, joggers and other exercise fanatics also gravitate to Red Rocks. The amphitheater has 69 rows of seats with four-foot-wide treads, while the stairs are only two feet wide and have 138 steps....the ultimate stairmaster. These exercise fanatics can run up and down whichever way that give them the best workout. I witnessed a few superstars run up and down two steps at a time.

Of the thousand things to do in Denver, visitors should start at the top and visit Red Rocks; it has become famous over the years for its gorgeous 250 million year old natural setting and the natural acoustic qualities that make it ideal for presenting performances outdoors. Legend has it that this location was used for millennia by the Native Americans for just that purpose. Its name in the local tongue of the Ute people



Partial Tyrannosaurs Rex Jaw on Display at Visitors Center

translates to “Garden of the Angels.”

If you think of Red Rocks Park as just a beautiful place to see a concert, think again. Around you are 868 acres of deer, dinosaur’s tracks/Tyrannosaur Rex fossils, geological wonders and spectacular vistas. At 6,450 feet above sea level, Red Rock Park is a unique transitional zone where the Great Plains meets the Rocky Mountains.

The amphitheater is a geological phe-

nomenon – the only naturally-occurring acoustically perfect amphitheater. From Sting and the Beatles, to opera stars and U2, every artist aspires to play on this magical, spiritual and emotional stage. The great challenge of Red Rocks will be to balance active use with the sacred aesthetics. Red Rocks is considered the finest venue in the world. God’s creation.....there is no runner up. ■

Details...

Milestone Engineering & Construction, Inc. has broken ground on the renovations and addition to the Concord Boys & Girls Club of Concord, NH. **Frank Anzalone Architects** of New London, NH is the architect.

LEED Certification for the Lindt & Sprungli (USA), Inc. corporate offices expansion in Stratham, NH has just been awarded. The project, which included a 40,000 square foot addition, and 25,000 square feet of renovation, was designed by **Bruce Hamilton Architects** of New Ipswich, NH. **Milestone Engineering & Construction, Inc.** was the construction manager.

Dennis Mires, P.A., The Architects, announces the completion of the fit-up of an additional 27,000 sf of office space for Dyn, the worldwide Internet Infrastructure as a Service (IaaS) leader. The additional space is on a lower level contiguous to their headquarters at 150 Dow Street in Manchester's Millyard. The new space is designed to integrate the two floors by creating a large floor opening with monumental stair and intermediate meeting platform. Within the open space is a two story transparent box of one conference room over another. The space continues the theme of collaborative workstations, transparent private flex rooms, and integrated lounge and recreation space of the original headquarter's space.

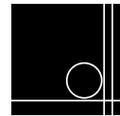
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AIANH
Chapter Meeting
at the
Hollis Montessori
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AIANH Tour of Hollis Montessori School's Passive House Design

The September AIANH Chapter Meeting was at the Hollis Montessori School, one of only three Passive House schools in the country. We had a great turnout to tour the building and hear an extremely informative presentation by David Ely AIA. Thanks to CertainTeed for sponsoring this evening.

Below is an article about the building by Barbara Taormina, Union Leader Correspondent, from June 13, 2013.



Set in a renovated and expanded apple pie factory and surrounded by 9½ acres of orchard and town conservation land, Hollis Montessori officially opened its new school in April. The building is a certified "passive house," a new generation of green construction that cuts energy use by 70 percent with a combination of technology and design that dovetails with the Montessori approach to education.

Frank Grossman, president of the school's board of directors, said sustainability and a low environmental impact were priorities for the school's founders and friends, so they decided to explore passive house designs and standards.

Passive house design originated in Germany in the early 1990s. It has been used primarily for residential housing. But over the past five years, the concept has been gaining ground throughout the construction industry

The U.S. Green Building Council's LEED standards and certification look at a range of different design and construction practices such as how a building affects the environment, water efficiency, waste reduction and the use of local materials and resources.

Energy usage counts

In comparison, passive house standards and designs have a far more narrow focus. "Passive house involves a set of building specifications concentrated on how much energy you use," Grossman said.

Passive house designs rely on airtight structures with heavily insulated walls, foundations and roofs. Buildings face south to get the maximum benefit of the sun's light and heat.

A ventilation and energy transfer system keeps fresh, outdoor air flowing in and stale indoor air moving out. But before the old air is expelled, heat or energy is extracted and used to either warm or cool the incoming air.

To put all of that into practice, the Hollis Montessori Board turned to architect David Ely and his New Boston firm, Windy Hill Associates.

"I had been looking into passive house for awhile," said Ely, who specializes in energy-efficient design. "I knew the energy performance standard was very high, but I had questions about whether it was worth it."

But after working on the Hollis Montessori School, Ely has become a passive house fan.

The site lent itself well to a passive house design since the south side of the building looks out onto a rolling landscape of hills, woods and apple trees. Ely's design used large triple-pane windows that fill rooms with natural light.

"In the winter, we get almost all of our heat from the sun," he said, adding that the roof overhang helps reduce the heat during the summer when the sun is higher.

Airtight structure

For Ely, one of the biggest challenges was making sure the building remained airtight. Every time a plumbing or electrical subcontractor came in to drill a hole for a pipe or a wire, Ely followed up to make sure it was properly sealed.

Other elements of construction such as the 12-inch double-studded walls with two layers of blown in cellulose insulation and the 24 inches of insulation on the roof work with the special ventilation system, designed by Jordan Goldman of the Boston-based company Zero Energy Design, to dramatically cut energy use. While it may seem like a lot of extra work and expense, Grossman said it was a relatively small investment with a big pay back. "It cost about 10 percent more than traditional construction," he said.

The school offers programs for kids ages 3 to 15 and is divided into five multi-age classrooms. The Montessori approach to education is a hands-on system that give kids



David Ely AIA, far right, leads event participants on a tour of the Hollis Montessori School and talks about its Passive House design. Photo by John W. Hession

the freedom to follow their own interests at their own pace. There are no rows of desks, no chalk boards and no bells.

“I didn’t have a lot of familiarity with Montessori schools so I did some research beforehand,” Ely said.

Ely then designed classrooms with lofts, open communal spaces and smaller niches. Kids can choose to work together or independently without interruption.

For lead teacher Kari Headington, one of the nicest aspects of the new school is the relationship between the building and the environment.

“I like the flow from the indoor to the outdoor with the windows that visually let in the environment,” she said.

As for the kids, Headington said they like the fact that classrooms have sinks, counters, bathrooms and furniture that’s built to each age group’s physical size.

The interior of the school also features plenty of wood, linoleum and wool rather than nylon carpets.

“We tried to use as many natural and clean materials as possible,” said Grossman, who added the school also tried to stick with local businesses.

And all of that’s made easy work for Brent Carney, who does public relations work for the school.

For Ely, one of the biggest challenges was making sure the building remained airtight. Every time a plumbing or electrical subcontractor came in to drill a hole for a pipe or a wire, Ely followed up to make sure it was properly sealed.

“Other schools are coming to check this building out,” he said. “We are becoming a model.”

Hollis Montessori School has already carved out a unique niche when it became the only Montessori school in New Hampshire to offer a program for middle school students.

Now, it’s one of only three passive house schools in the country and the only passive house school in the Northeast.

With 80 kids now enrolled and room for at least 70 more, Grossman and the other founders and board members hope the school will grow and generate a longer list of accomplishments.

“All of the school’s founding families and friends have gotten involved because they wanted to have a school that would be sustainable and would last,” he said. ■

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A new self-service web application has been released for AIA members to update personal information online. Members can sign into www.aia.org/myprofile to add or change contact information, provide much needed demographic information, update their education, professional licenses, career-track, and contact preferences. This new web form will help keep member data up to date, and save staff time at the component and national level. Members are also able to access the profile page directly after logging in at www.aia.org home page using new navigation in the upper right-hand corner.

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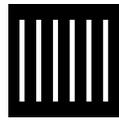
Dues: The easiest way to renew is online at www.aia.org/renew/index.htm. National dues rates are unchanged for 2014, \$251 for Architect Members, \$108 for Associate Members. NH Component dues rates are \$197 for Architect Members, \$144 for Associate members five years or more, \$93 for Associates 1-5 years. NH dues are slightly increased over the last year.

NH Affiliate Members: 2014 dues are \$144. You will receive an invoice in the mail shortly after the new year.

New Grads: Prospective members eligible for the new graduate promotion may now join online. New grads are offered to free years of membership. Online enrollment is available at www.aia.org/join_grad.

Renew your AIA membership early: Incentives for Renewing early or joining before December 31, 2013 are offered October 1-December 31, 2013. If you renew by Dec. 31, 2013, you have the opportunity to win an Apple iMac \$1650 value; a copy of *The Architecture of the Barnes Foundation: Gallery in a Garden* – \$50.00 value; Free convention registration for the AIA 2014 National Convention and Design Exposition in Chicago, June 26-28, 2014 – Est. value \$875 (New Architect, Associate, and International Associate members only - including reinstated members with a lapse of greater than 5 years). Go to: www.aia.org/renew/index

U.S. Access Board Issues Final Guidelines for Federal Outdoor Recreation Sites



On September 26 the U.S. Access Board issued new accessibility guidelines for outdoor areas developed by the Federal government. The guidelines provide detailed specifications for accessible trails, picnic and camping areas, viewing areas, beach access routes and other components of outdoor developed areas when newly built or altered. They also provide exceptions for situations where terrain and other factors make compliance impracticable.

“The Board is eager to release these guidelines, which were long in the making, to explain how access to the great outdoors can be achieved,” states Access Board Chair Karen L. Braitmayer FAIA. “The greatest challenge in developing these guidelines was balancing what’s needed for accessibility against what’s possible in natural environments with limited development.”

Requirements for trails, outdoor recreation access routes, and beach access routes address surface characteristics, width, and running and cross slopes. Exceptions are included for these and other provisions under certain conditions stipulated in the guidelines. Departures are allowed where compliance is not practicable because of terrain or prevailing construction practices. Exceptions are also recognized where compliance would conflict with mandates such as the Endangered Species Act and other laws or where it would fundamentally alter a site’s function or purpose.

The guidelines originate from recommendations prepared by an advisory panel chartered by the Board, the Outdoor Developed

Areas Regulatory Negotiation Committee. They were made available for public comment twice and finalized according to the feedback received. The rule applies only to national parks and other federal sites, but the Board plans to follow-up with rulemaking to address non-federal sites under the Americans with Disabilities Act (ADA) at a later date.

“The Board is moving ahead to issue the guidelines first for federal sites out of expediency,” explains Braitmayer. “In developing its guidelines, the Board must assess and aggregate their impacts. The Board was able to complete the necessary assessment on sites in the federal sector, but will require more time to analyze the impacts on the broader range of sites controlled by state and local governments covered by the ADA.”

The rule applies to Federal agencies that develop outdoor areas for recreational purposes, including the National Park Service, the Forest Service, the Fish and Wildlife Service, the Army Corps of Engineers, the Bureau of Land Management, and the Bureau of Reclamation. The new requirements will become mandatory on November 25, 2013 as part of the Architectural Barriers Act Accessibility Standards, which apply to facilities that are built, altered, or leased with federal funds.

The Board will conduct a public webinar on the new rule on October 17 from 2:30 to 4:00 (ET). To register for this free webinar, visit www.accessibilityonline.org. For more information on the rule, visit www.access-board.gov/ or contact Bill Botten at outdoor@access-board.gov, 202-272-0014 (v) or 202-272-0073 (TTY). ■


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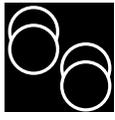


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Re-built Memorial Bridge Opened Between Portsmouth and Kittery

From PlanNH staff



Many of us take bridges for granted, and for almost a decade, the communities at the mouth of the Piscataqua River did as well when it came to the Memorial Bridge (sometimes referred to as The Little Bridge. It is one of three that crosses the River from Portsmouth to Maine.)

Opened in 1923, the bridge allowed thousands of people each day to travel back and forth – from Portsmouth to the Shipyard, to the Golden Harvest and Carl’s Meat Market, to the family doctor and the eye doctor .. and more. Conversely, Kittery folks traveled to Portsmouth for goods, services, dining and other reasons.

But age took its toll on the structure, and in July 2011, the bridge was closed to vehicle traffic, and in January 2012, just before demolition, bikes and pedestrians were no longer allowed. During the following year and a half, the existing bridge was slowly dismantled and taken down river and then down the coast to its demise. A new bridge was slowly, carefully built, under the watchful eyes of many, many Seacoast

residents (on site and via web cams) - a fascinating engineering project that at times made people gasp with wonder and astonishment.

For more about the Memorial Bridge Project, go to: www.memorialbridgeproject.com/.

There are many stories about the bridge re-build. But what we noticed especially, as implied above, is the impact this human-built structure has had on the community - by its absence, and by its presence.

The little area around the Golden Harvest in Kittery, as well as Kittery Foreside, was concerned about a drop in business with the bridge closing. We know through anecdote that many, many on the Portsmouth side of the River made a conscious effort to continue to support the establishments in those parts of Kittery – especially after figuring it out that it is only 7 minutes to go across the Middle Bridge (the Sarah Mildred Long Bridge, which itself will be closed and re-built in the near future) and over to those areas.

By its absence, people on either side



were suddenly mindful of how close and connected the two towns are at many levels.

The number of people riding bicycles and walking has increased dramatically in the past two years, and with the bridge re-opening, we have seen an increase in the number of non-vehicle crossings there as well. It has certainly been encouraged, with deliberate bike lanes and wider sidewalks (even with bump-out observation points) to accommodate just about everyone.

In a study circle about the Bridge and its impact, people were asked to describe what the Bridge means to them. Each person had a different perspective, but for many, it was extra-ordinary. And many mentioned the magic of being on the bridge, or waiting for it to raise and lower - feeling suspended in time, between one place and another yet, at the same time, very much in a special place.

The Memorial Bridge - a huge influence on the fabric of the community. ■

...an excellent example of the impact of the built environment on the health and vitality of the community.



Opening Day

GSLA Updates on NH Chapter of ASLA

Last spring GSLA was welcomed by the American Society of Landscape Architects as the Society's 49th chapter (NH Chapter of the ASLA). **Anne Cruess** was selected as the New Hampshire Chapter's ASLA Trustee. Anne is the link to the local chapter and the national ASLA office.

GSLA Survey Results

At the end of 2012, GSLA asked its members to share ideas on getting the most out of their membership with GSLA. Here is what we heard:

- Approximately 60% of the membership are practicing landscape architects residing in the State of New Hampshire.
- Among work performed by LAs taking the survey, site planning, sustainable design and development, and planning and permitting were the highest practiced types of work.
- The majority of members joined GSLA for professional alliances and networking opportunities.
- GSLA membership would like to see some of the following from GSLA in the future:
 - Updates on local and regional events
 - Alliance with architects and other allied professionals in NH
 - LA contact with municipalities regarding the practice of Landscape Architecture

The survey showed that GSLA membership is interested in being involved with GSLA as Regional Representatives, event planning, the E-Newsletter, etc. Please contact gsla.online@gmail.com to find out more about these opportunities.

New LTTR values

PIMA updates its Quality Mark program



In June, the Polyisocyanurate Insulation Manufacturers Association (PIMA) announced its QualityMark-certified R-value program is being updated to incorporate a new test method for determining long-term thermal resistance (LTTR). As a result, new LTTR values are going to decrease from current values. If you are involved in the design, procurement or installation of roof systems that include polyisocyanurate insulation, you should be aware of these upcoming changes.

LTTR test method

Since 2004, LTTR values for polyisocyanurate insulation have been reported using PIMA's Quality-Mark program, which provides for testing according to CAN/ULC-S770-03, "Standard Test Method for Determination of Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams."

In 2011, the U.S. product standard for polyisocyanurate insulation, ASTM C1289, "Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board," was updated to reference CAN/ULC-S770's 2009 edition. Use of ASTM C1303-11, "Standard Test Method for Predicting Long Term Thermal Resistance of Closed Cell Foam Insulation," also is permitted.

Beginning Jan. 1, 2014, either CAN/ULC-S770-09 or ASTM C1303-11 will be used in the QualityMark program to determine and report LTTR.

Changing LTTR values

The updated LTTR test methods will result in LTTR values that are lower than the LTTR values roofing professionals have become accustomed to using. The new minimum values established by the QualityMark program are shown in the figure. The slightly increasing LTTR per inch thickness indicates a lower cell gas diffusion rate with thicker polyisocyanurate insulation products.

Overall, these new LTTR values represent about a 7 percent decrease from current values.

Individual polyisocyanurate insulation manufacturers may publish product and thickness specific LTTR values greater than those established in the QualityMark program.

PIMA and polyisocyanurate insulation manufacturers have indicated they do not anticipate the change in LTTR values will have any effect on polyisocyanurate insulation's physical properties.

Implementing the change

Manufacturers are expected to provide additional information specific to their products and begin labeling them with the new LTTR values later this year.

The transition to the new values is expected to cause some confusion for designers, product suppliers and distributors, and roofing contractors. Of particular concern are roofing projects that will be designed and possibly bid using this year's LTTR values but installed after the Jan. 1, 2014, implementation date when the new, lower LTTR values are applicable.

The National Roofing Contractors Association (NRCA) recommends designers specify polyisocyanurate insulation by its thickness—not R-value—based on the required R-value for specific project conditions.

During this transition period, for projects where designers specify polyisocyanurate insulation by R-value, roofing contractors may want to consider submitting requests for information (RFIs) to clarify whether the current or new LTTR values are applicable. This article can be included in RFI submissions.

More information about polyisocyanurate insulation, including NRCA's recommendations for using in-service design R-values, is provided in *The NRCA Roofing Manual: Membrane Roof Systems—2011*, which can be purchased at shop.nrca.net. ■

AIA+2030 PROFESSIONAL SERIES, Continued from page 1

mentally-minded solutions and the economy. This program makes a direct link to how a profession can make a positive impact on the most significant environmental challenge we face today. By focusing on how a profession can make a difference beyond actions of individuals, we can reach our goal much faster while boosting the economy.

AIA Seattle, who founded this program, has reported positive feedback from participants. AIA Maine and the BSA have also both run the series. Participant comments include:

“One of the most significant and usable workshop programs I have seen so far for actually incorporating the specifics of Architecture 2030 into our work. We have had multiple staff in our office lined up to attend. Great series, great benefit.”

“This knowledge is critical for everyone in our industry. Very inspiring.”

“I am going to take on more challenging projects now.”

“Groundbreaking.”

The AIA+2030 program is highly beneficial to all AIA members, because those participating will be better able to compete for federal, state, and local projects, as well as understand how to take advantage of the many government incentives available to help achieve the 2030 Challenge targets. Also, program participants will gain a competitive edge as national code standards are implemented that incorporate the Challenge targets.

AIA+2030 will provide our membership with the knowledge base and tools necessary to make real and effective change. Make sure you are prepared to meet the challenge. Attend the AIA+2030 Professional Series right here in New Hampshire.

The AIA+2030 program is highly beneficial to all AIA members, because those participating will be better able to compete for federal, state, and local projects, as well as understand how to take advantage of the many government incentives available to help achieve the 2030 Challenge targets. Also, program participants will gain a competitive edge as national code standards are implemented that incorporate the Challenge targets.

The AIANH Board and the Environmental Guild are currently putting the New Hampshire Program together. We are licensed to hold the series and must uphold the standards required. The AIA+2030 program provides us with a wealth of resource material.

While all the details are not yet finalized, here are some of the pieces that are confirmed:

- The series will run on Thursday mornings at the Audubon Center in Concord starting March 27, 2014; then April 24, May 22, June 26, Aug. 21, Sept. 25, Oct. 23, Nov. 20, Jan. 22, 2015, and Feb. 26 2015.

- The cost of the program is not yet finalized, but it will be between \$15-20 per credit hour for members; \$20-25 for non-members. Those enrolled in IDP and Emerging Professionals (5 years or less) will receive a discount.

- Participants are required to participate in the full series, however a firm can buy multiple seats and send different people to the sessions as long as those who attend agree to report back to the firm with a mini-presentation. We will have PowerPoints available to assist them.

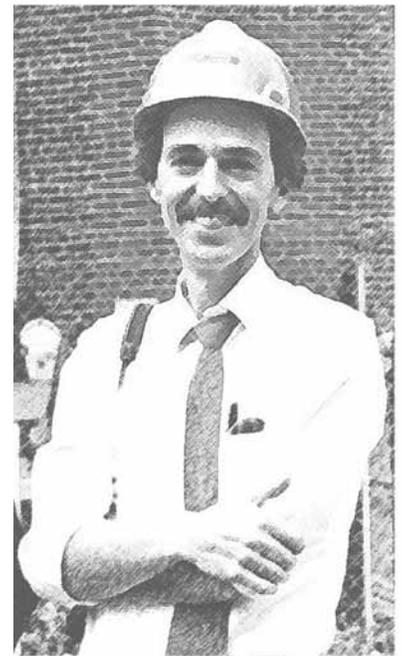
- 4 AIA HSW LUs will be granted for each session.

Watch for more information in the next couple of months. Registration will also be available soon. You will have to sign up for the whole series, but we will offer a payment plan for those who wish.

We are also seeking sponsors for this program, who will receive extensive exposure and a variety of benefits. Please contact Carolyn at the AIANH office for more information, 603-357-2863, office@aianh.org.

We hope to see you there! ■

CFE: 2014 Clinton Sheerr Award



The Call for Entries for the Clinton Sheerr Award for Excellence in NH Architecture is now open. This award honors and promotes New Hampshire architects and architecture that exemplify excellence in design at the highest level. Find out how to make a nomination at: www.aianh.org/design-awards/clinton-sheerr-award. Deadline for nominations is December 1.

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BURTT, *Cont'd from page 2*

We also have specialized clubs at the school that relate to the course of study. I was a member of a science club that was focused on construction. We studied construction details and new materials. We would go with one of our instructors to Berlin to a conference about concrete or to Russia to study traditional wood construction. Another club was focused on restoration of historical structures, which was very appropriate in Cracow.

Karolina: Is there a final project at the end of school?

Katarzyna: Yes. The final project takes about a year to complete. Students chose to work in groups or as individuals. They have a choice of either a traditional architectural project or renovation of an existing urban site. At the end every student or group has to present the project in an open forum in front of their advisors, jury, and colleagues.

After the project presentation there is an oral exam portion of the diploma process. Everyone gets three questions, two of them related to the history of architecture and one technical question relating to construction techniques.

Students who successfully finish this process graduate with a title master engineer architect.

Karolina: What happens after graduation?

Katarzyna: Polish statistics say that only about 30 percent of graduates decide to stay with the profession. Those that stay start a three-year long paid internship process. Two years are spent in the architectural office working on all aspects of planning and design. One year has to be spent on the construction site as assistant to the construction manager observing every stage of the construction process.

Karolina: Is it difficult to find such a paid internship with an architectural firm or with a construction company?

Katarzyna: Finding an internship, the first job, with an architectural firm is very difficult, similar to finding any job. There are many people applying for the same position and often the job is found because of whom you and your family know.

It is much easier to find a job with a construction company. Their mission is to show young architects how things are really done so they don't make stupid mistakes later on.

Karolina: What's the next step after internship?

Katarzyna: Every hour of internship is recorded in a special journal that is later verified by the local Institute of Architects. After that one can sit for the two-part exam. First is a written test relating to construction law, second is an oral exam containing three questions about the profession and one question about construction. In order to stamp the project an architect has to be a member of the Institute of Architects, which has an ongoing responsibility for oversight and continuing education.

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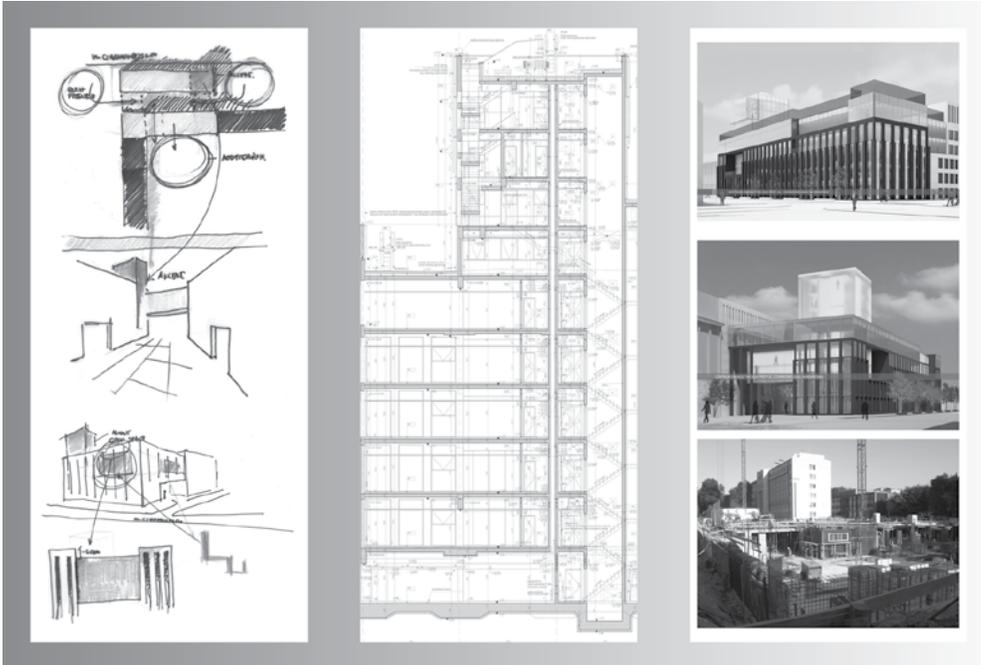
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Cracow Development Office – The Center of Energy, University of Science and Technology in Cracow

Karolina: Tell me about the firm that you are working for and how Polish firms get work?

Katarzyna: The firm I work for is the second largest in Cracow. It's called Cracow Development Office. It has two departments, architecture and urban planning, with a total of about 22 people. We get work either through competitive bid or design competition. In competitive bid firms create a solution that gets far into construction details and material selection so it can be budgeted. Design competitions are looking for conceptual solutions and are often publicly discussed and criticized unlike the competitive bid.

Karolina: Who is the client in case of bid or competition?

Katarzyna: Local governments often publicize both types of projects and the funds come

from the European Union. These projects often have to do with renovation and repurposing of old manufacturing plants, army bases, or schools. The money has a time limit and becomes an economic engine for the many new projects.

Karolina: How do you see your future as an architect in Poland?

Katarzyna: This is not an easy profession and comes with its own challenges. Many of my friends work abroad in England, Ireland, Spain, or Italy. On the other hand there is so much to do here. Many old buildings need to be renovated; new projects have to be thoughtfully designed to fit within parameters of this old city. I want to be part of the process.

Karolina: Thank you very much for taking the time to talk to me. ■

Furniture Masters: A Celebration October 27

The New Hampshire Furniture Masters invite the public to join them on Sunday, October 27 for an evening of fine craftsmanship in *Furniture Masterworks 2013: A Celebration*. A departure from the Masters' live auctions of years past, this event will offer attendees an engaging design experience in which they can interact with individual masters more intimately, experiencing their newest creations firsthand and speaking with the Masters in-depth if desired. This special evening takes place from 4:00 to 7:00 p.m. in the Wentworth by the Sea Hotel and features works by 20 fine furniture makers. The evening includes an elegant reception and the perennially popular Silent Auction. The ticket price has been reduced to \$25 per person to make the evening more accessible; attendees are encouraged to purchase tickets in advance through the Furniture Masters' website, www.furnituremasters.org.

This year's event is carefully crafted to allow attendees maximum interaction with both the furniture and the artists who create it. Special features of this year's event include:

A full-size vignette that demonstrates how effortlessly the Furniture Masters' works may be incorporated into a home or office environment. The vignette will include works by participants in the Furniture Masters' Prison Outreach Program, paired with beautiful oriental rugs provided courtesy of Lead Sponsor Persian Rug Gallery.

A display by sponsor TMS architects of Portsmouth, New Hampshire illustrating their services and highlighting their restoration of the historic Wentworth property.

Our highly anticipated Silent Auction, featuring smaller, more modestly priced works by the Furniture Masters. All proceeds from the Silent Auction support the Furniture Masters' educational initiatives, including their renowned Prison Outreach Program, which was recently expanded to the Maine prison system.



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Job Opportunities, Positions Sought

Job listings and positions sought listings are on the AIANH website: www.aianh.org/careers. To submit an ad, please email ad text to 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.

Details...

Joaquín Denoya PE was recently hired as a structural engineer project manager at **T.F. Moran**. He has over eight years of experience in structural design, analysis, and construction administration of both new and existing residential and commercial buildings throughout the northeast. Mr. Denoya's prior experience includes serving as a senior project engineer for The Di Salvo Ericson Group Structural Engineers in Ridgefield, CT.

Mr. Denoya has a Masters of Engineering in civil engineering and a Bachelor of Science degree in civil engineering from Rensselaer Polytechnic Institute in Troy, NY.

North Branch Construction has begun the renovation of SIG SAUER's manufacturing plant and office building located at their former headquarters in Exeter, NH. North Branch recently completed construction of a state-of-the-art testing facility and upgrades to the manufacturing plant at the new location of SIG SAUER United States Headquarters in Newington, NH.

Fire Prevention Begins With the Initial Design Process

by Jeff Murphy, PE, SFC Engineering

The Great Chicago Fire of 1871 marks a historical event in the world of fire safety. The fire allegedly began in the barn of Mr. and Mrs. O'Leary as the traditional song goes, "Ten nights ago when we were all in bed, Old lady Leary lit a lantern in the shed, And when the cow kicked it over, she winked her eye and said: 'There'll be a hot time, in the old town, tonight!' Fire! Fire! Fire!"¹ While this is a "campfire" song, the origination of the fire was never confirmed. The historical story says that the fire ironically spared the O'Leary's house, but much of Chicago wasn't so fortunate. According to historians, the damage was over three and one-third square miles in size; there was a property damage of \$192,000,000, 100,000 people were left homeless, and 300 people lost their lives.²

Why is this bit of history significant? Due to this fire of 1871, the National Fire Protection Association (NFPA) has created a National Fire Prevention week commemorating this disaster. Each year the NFPA designates an educational theme related to national fire issues. This year's National Fire Prevention week takes place October 6-12 and focuses on the destruction of kitchen fires. According to the NFPA website, "U.S. Fire Departments responded to an estimated annual average of 156,600 cooking-related fires between 2007-2011, resulting in 400 civilian deaths, 5,080 civilian injuries, and \$853 million in direct damage." Why is this important to you? Fire safety is everyone's responsibility. Whether

you are a business owner, facility owner, staff supervisor or additional staff level, you have a direct relationship to fire safety through your actions and business operations. While primary responsibility resides with business owners, there is a more significant party responsible for the initial fire safety; Architects and building designers.

Why is it important for architects and additional building designers? Fire safety and fire prevention begins long before the first day of any operation. It begins with the initial design process for the new structure. The key to fire safety is providing operators with not only a physical building layout that provides proper safety, but also educates building owners with an understanding of the overall fire safety design. Too many times building owners have not understood specific designs in a building act as a safety feature and unknowingly remove them. Fire prevention week is all about this educational element to the general public, building and facility owners, and building designers. It is exceedingly important that the design engineer takes the time to educate their clients on the fire safety elements of their plan and an explanation of what needs to be maintained for the intended level of safety. ■

¹ Yannucci, Lisa. 2013. *International Music & Culture*, www.mamalisa.com/?t=es&p=2353&c=23.

² Bales, Richard F., 2004. *A New Look at the Cause of the Great Chicago Fire*, <http://thechicagofire.com>.



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Construction Summary

Project Type: State House Dome

Cost: \$972,890

Location: Concord, NH

Owner: State of NH

Architect: Lavallee/Brensinger PA

Gen. Cont.: DL King & Associates Inc.

Project Type: CSR & Surgical Services
Renovations, Portsmouth Regional Hosp.

Location: Portsmouth, NH

Owner: Portsmouth Regional Hospital

Architect: JSA Inc.

Engineers: Stantec Consulting Services Inc.,
JSN Associates

Const. Mgr.: Suffolk Construction

Project Type: Samuel Read Residence Hall
Renovations (Plymouth State College)

Location: Plymouth, NH

Owner: University of NH

Architect: Harriman Architects & Engineers

Const. Mgr.: Bauen Corp.

Project Type: Town Hall & Police Depart-
ment Exterior Renovations

Cost: \$385,000

Location: Gilford, NH

Owner: Town of Gilford

Architect: Amoskeag Architectural Grp LLC

Gen. Cont.: PRB Construction

Project Type: Elementary School Residing &
Window Replacement

Cost: \$329,240

Location: Pittsfield, NH

Owner: Pittsfield School District-SAU 51

Architect: Harriman Architects & Engineers

Gen. Cont.: Hutter Construction Corp.

Project Type: Fisk & Soule Schools
Additions/Renovations & Walter F. Haigh
School Improvements

Cost: \$15,000,000 - \$20,000,000

Location: Salem, NH

Owner: Salem School District-SAU 57

Architect: Lavallee/Brensinger PA

Engineers: Nobis Engineering,
Fitzmeyer&Tocci Associates, Foley Buhl
Roberts & Associates

Const. Mgr.: Bonnette Page&Stone

Project Type: CRJ Hampshire House (First
Floor Renovations)

Location: Manchester, NH

Owner: Community Resources For Justice

Design Consultant: Team Engineering

Gen. Cont.: North Branch Construction

Project Type: CTR Strafford Barracks
Renovations (Contract A)

Cost: \$779,893

Location: Center Strafford, NH

Owner: State of NH

Architect: HL Turner Group

Engineer: HL Turner Group

Gen. Cont.: Meridian Construction Corp.

Project Type: East Rochester School
Expansion & Renovations

Cost: Approx. \$10,000,000

Location: Rochester, NH

Owner: Rochester School Department

Architect: Lavallee/Brensinger PA

Const. Mgr.: Hutter Construction Corp.

Project Type: Fire Training Facility (Low
Bid Design/Build) (Pre-Engineered)

Cost: \$339,875

Location: Bethlehem, NH

Owner: State of NH

Design Consultant: Oak Point Associates

Gen. Cont.: DL King & Associates Inc.

Project Type: Construction Management
Services (Upgrades To Hamel Recreation
Center)

Cost: (Construction Budget: \$20,000,000)

Location: Durham, NH

Owner: University of NH

Architect: Hughes Group Architects,
Sterling VA

Const. Mgr.: Shawmut Design&Construction

Project Type: Rite Aid Remodel

Location: Bristol, NH

Owner: Rite Aid Real Estate Operations

Architect: Bruce Ronayne Hamilton
Architects

Gen. Cont.: Bast Hatfield General Contractor

Project Type: Highway Garage (Metal
Building) (Pre-Engineered)

Cost: \$142,220

Location: Wolfboro, NH

Owner: Town of Wolfboro

Architect: John Brennan & Associates

Contractor: Dutton & Garfield Inc.

Project Type: Faculty Housing (St Pauls
School)

Location: Concord, NH

Owner: St. Pauls School

Architect: Icon Architecture, Boston MA

Engineer: Provan & Lorber Inc.

Gen. Cont.: North Branch Construction

Project Type: Huddleston Hall Restroom
Renovations

Cost: \$174,500

Location: Durham, NH

Owner: University of NH

Architect: Manypenny Murphy Architecture

Engineers: Harriman Associates

Gen. Cont.: Careno Construction Co.

Project Type: Student Affinity House
Residence Renovations (27 Beds)
(Dartmouth College)

Location: Hanover, NH

Owner: Dartmouth College

Architect: Smith & Vasant Architects

Gen. Cont.: Estes & Gallup

Project Type: Notre Dame Service Enriched
Community Housing (33 Units)(Reno-
vate/Convert Former Notre Dame
School)

Cost: \$5,500,000

Location: Berlin, NH

Owner: AHEAD Inc.

Architect: Alba Architects

Engineers: HEB Engineers Inc., Yeaton
Associates

Const. Mgr.: HP Cummings Construction

Project Type: (Project I: Medical Center ED
Office FitUp of Existing Ambulance
Bay) & (Project II: Short Stay Observa-
tion Unit Renovations) (Dartmouth Hitch-
cock Medical Center)

Location: Lebanon, NH

Owner: Dartmouth Hitchcock Medical Ctr.

Architect: Fleck&Lewis Architects

Const. Mgr.: HP Cummings Const. Co.

Project Type: (2) Highway Welcome Cen-
ters / Liquor Stores & Gas Fueling Pumps

Cost: Approx. \$24,000,000

Location: Hooksett, NH

Owner: Granite State Hospitality LLC

Architect: Samyn D'Elia Architects

Engineer: VHB Inc.

Const. Mgr.: CCI Inc.

**Construction Summary is provided by
Construction Summary of NH, Inc.
734 Chestnut St., Manchester, NH 03104**

Calendar of Events

Oct 10 NCARB & You: IDP, ARE & Certification, 6:00pm, Lavallee Brensinger Architects, Manchester. Martin Smith from NCARB will talk about a range of licensure topics relevant to students, interns, supervisors, architects, and people in the architecture profession. The presentation will review the steps necessary to achieve licensure and other programs to get the most out of your career in architecture. Get all your questions answered! No cost, but please RSVP so we can plan for food and beverages: Nicole Martineau, 603-436-4274, nicolem@tms-architects.com. Sponsors: AIA New Hampshire and TMS Architects. 1 AIA LU

Oct 15 AIANH October Education Day, 8:00am to 5:00pm, Audubon Center, Concord. The October AIANH Education Day is full of informational programs and you can earn up to 7 LUs (HSW). More at www.aianh.org/news/aianh-events

Oct 16-Nov 6 Community Training in Ecological Design Solution-based training for NH Community Leaders and Professionals using Permaculture Design Principles. Join Steve Whitman, Lauren Chase-Rowell, Mary Tebo Davis, and Stacey Doll (in partnership with UNHCE) as they lead you through a new and innovative training on Ecological Solutions for NH Communities. The program will give you the necessary tools to plan, design, and develop a more resilient and sustainable future for your town's infrastructure and economy. Utilizing Permaculture Design Principles, you will be led through a series of conversations, participatory activities, case study field trips, and a design charrette to develop your skills as an ecological designer and permaculturist for your community. 5 sessions, \$395 per person. Sessions held in Boscawen, NH, except for one field trip to Dalton's Pasture, Nottingham. Please register soon as space is limited.

Oct 24 Creating Healthy Communities Through Greenway Design, A Randall Arendt Workshop, NH Housing Finance Authority, Bedford, 3:30pm to 9:00pm. This workshop will show how community planning that addresses the values of health and wellness through greenspace design can and does work. The workshop will provide valuable information for planners, landscape architects, architects, members of planning boards, conservation commissions, and more. Cost: HBRANH, PlanNH, & APA-Northern NE Chapter members, \$75; Non-members, \$90.00. More information and registration. <http://plannh.org/news-events>

Oct 27 Furniture Masterworks 2013: A Celebration, Wentworth by the Sea; see p. 13

Nov 7 AIANH Chapter Meeting at The Governor's Mansion, Concord, 5:30pm to 8:45pm. Join us for a tour of the restored NH Governor's Mansion in Concord for our November AIANH Chapter Meeting. www.aianh.org/news/aianh-events

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Photo of the Month

Photo taken in historic De Zaanse Schans, Netherlands, Sept. 2012 by Chris Urner and Nicole Martineau AIA

We took this photo on a leisurely walk through town. Windmills used to be a main part of life in the Netherlands. They dewatered the land to provide areas for habitation and farming as well as aided in manufacturing. These particular mills were and still are used to crush and grind nuts for their oil.

We Need More Photos!!! Do you have an interesting photo? Why not send us on to print? 300 ppi jpegs, approximately 4 x 6 inches, BW or color. Send along a title, brief caption if you like, and your name, to office@aianh.org.