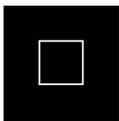


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## AIANH & PlanNH Special Awards Evening



AIANH and PlanNH will join together to recognize and celebrate accomplishments of young students and aspiring professionals in the design and construction industries at a special Awards Evening to be held on

Wednesday, May 26, at the McAuliffe-Shepard Discovery Center in Concord.

The students will have projects on display, and will be eager to talk with professionals in the industries. You will also have the opportunity to meet with professionals. *Continued on page 12*

## Fifth Annual IDID Design Awards



Winners of the fifth Integrated Design/Integrated Development (IDID) Excellence in Sustainable Design and Development Awards program were announced recently at the sixth

IDID Conference — *Sustainable Design: From LEED to Living Buildings*, a symposium presented by the Sustainable Design Initiative at Dartmouth College and AIANH. Integrated Design Awards were announced recently at the sixth *Continued on page 10*



Symposium attendees view the IDID Design Award entries. Photo by John Hession

Published by

AIA New Hampshire

with the Granite State

Landscape Architects

and PlanNH

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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](http://www.aianh.org)

**NH Forum**

# Perspective

*Point of view from the president of AIANH*



Michael Morin AIA  
President 2010

Let's not forget Haiti.

I recently read an Internet article about disaster relief in Haiti. That article also appeared in the March 2010 edition of *Architect* magazine. What follows includes elements of that article.

On January 12 of this year, Haiti was hit by a devastating earthquake that killed more than 200,000 people and left another 1,500,000 homeless. Since that time there have been a variety of organizations from around the world that have reached out to help the Haitian people. The collapse of buildings during the earthquake was the main cause of death and the resulting homelessness. The estimated cost for reconstruction is over 11 billion dollars. Though Haiti has not been in the news lately the disaster relief organizations are still there and they still have overwhelming needs. One collection of organizations includes groups that are focusing on the building needs of the Haitians. These groups have been busy for months and their mission is daunting. Let's review the plan of one of the leading groups; Architecture for Humanity.

Architecture for Humanity has been part of the recovery in Haiti since the early hours after the disaster. The group published "A Plan for Reconstruction" for Haiti days after the earthquake and have since been working on developing partnerships to advance the plan. One of the early goals was to get schools up and running because half of the Haitian population is under the age of 20. However, the more immediate concern is to transition people out of tent cities and into safe housing appropriate to withstand the rainy season, which peaks in May, and the hurricane season that starts in June. These camps are expected to flood during the upcoming rains and there are huge concerns about the health-related issues that will ensue.

There are eleven goals listed in "A Plan for Reconstruction." They include creating community building supply centers to support architecture and building services by various organizations such as the Haiti Rebuilding

Coalition, and providing teams of architectural and construction professionals who have been educated in disaster mitigation and long term sustainable development. AFH is training and educating volunteers and community members in building safely. They hope this effort will create homes and create jobs. They are working with women's empowerment groups and artisans to rebuild their facilities. This should create more jobs and support the increased distribution of microloans. An important aspect of the goals is to build safer, more secure and sustainable housing, built to a higher standard that they hope will force the establishment of better codes. In addition to rebuilding schools and homes the group hopes to upgrade the digital infrastructure. AFH has learned many lessons from past disasters such as Hurricane Katrina and the South-east Asian tsunami. They have translated and distributed their lessons learned manual "Rebuilding 101" as well as an earthquake resistant housing manual.

Architecture for Humanity is providing important support to Haiti since the earthquake disaster. They were listed as one of seven groups to contribute to in a January letter to AIA members. AFH is a nonprofit group, based in San Francisco, founded in 1999 by Cameron Sinclair and Kate Stohr. The group provides design, construction and development services as needed and in response to natural disasters. For more information visit their website at <http://architectureforhumanity.org>. ■

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# Young Architects Forum

by Nathan Stolarz, Assoc. AIA

On March 19 the SST (Seacoast School of Technology) in Exeter, NH, hosted the SkillsUSA State Architectural and Technical Drafting Competition. Twelve contestants (four Architectural and eight Technical) from New Hampshire High Schools were vying for their opportunity to compete nationally among their peers. I had the opportunity to judge and write the program which comprised of designing a large studio, workspace and small conference room that totaled roughly a 650 SF building for a Graphic Designer/Photographer. The contestants had an eight (8) hour session to generate a written statement, hand sketches and 2d and 3d CAD drawings produced in the software of their choice. Even though the clock was against them I was extraordinarily impressed with what each of the contestants was able to produce in just a short amount of time. The winner of the competition

will be moving on to the national competition which will be held in Kansas City this year. Below is a description of what the SkillsUSA Championship competition will showcase:

The SkillsUSA Championships is the showcase for the best career and technical students in the nation. In 2009, there were more than 5,400 contestants in 91 separate events. Nearly 1,500 judges and contest organizers from labor and management make the national event possible. The philosophy of the Championships is to reward students for excellence, to involve industry in directly evaluating student performance, and to keep training relevant to employers' needs.

On March 16 the Young Architects had an ARE review session hosted at JSA Architects in Portsmouth, NH. This review focused on the Structural Systems portion of the seven  
*Continued on page 14*



**William Rawn FAIA recently spoke at the joint AIANH Chapter Meeting and Keene State College Architecture Program Open House. Next to Mr. Rawn on the left are faculty members for the KSC program: Peter Temple, Associate Professor; Donna Paley, Associate Professor; Walter Nicolai, Adjunct Faculty, and Bart Sapeta Assoc. AIA, Assistant Professor. Over 70 students and AIANH members and friends attended the event, sponsored by The Sherwin Williams Company.**



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

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To send press releases for the *NH Forum*, please email your document to [office@aianh.org](mailto:office@aianh.org) and include "press release" in the subject line. We will print as many notices as possible, giving preference to AIANH members and related non-profits. We reserve the right to make final determination for printing based on space and appropriateness, as well as the right to edit.



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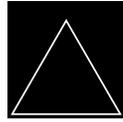
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# Building Ventilation

by *Tim Sappington AIA*



In our current emphasis on making buildings as tight and energy efficient as possible, we wish to call everyone's attention to an issue that may sometimes get overlooked, namely ventilation. I am Tim Sappington, living in the town of Randolph, NH and as such believe I am the northernmost practicing architect in the state. I also have often worked with a very competent structural consultant from northern Vermont, who has performed many forensic investigations on buildings suffering premature rot from inadequate ventilation. For the purposes of this article he would prefer not to be named in order not to get his small practice swamped by inquiries, but he has allowed me to refer him to anyone calling me with serious questions or interested in hiring him as a consultant.

This engineer first alerted me to this issue, which due to our more extreme climate may be occurring here in the North Country more than in southern New England. Buildings of all types, but principally wood framed or structural (stress skin) insulated panel (SIPS) residential and light commercial construction, are often found suffering from extensive moisture related rot often typically within five years after construction. This rot predominantly occurs first around windows, doors and corners, but over time can spread to the entire envelope. Often, these structures are built to text book standards; ie, 2X6 framing with plywood or OSB board sheathing and fiberglass batt or blown in insulation, or alternatively with SIPS consisting of 4-6" of urethane or polyisocyanurate foam insulation sandwiched between OSB panels. In most cases there would typically be a vapor barrier and sheet rock on the interior and building wrap and siding on the exterior.

It is the building wrap material that our engineer believes to be the prime culprit, substantiated over the years with many investigations. He claims these products (such as Tyvar or Tyvek) actually perform their intended job too well. They are correctly specified as a weather and not a vapor barrier. As such they keep out the rain (liquid state water) but allow vapor to pass through. The problem occurs in environments such as ours, which are both cold and

moisture laden during winter months. When vapor enters a wall cavity, it often condenses into water somewhere within that wall cavity wherever the dew point occurs. Liquid water can not escape back through the impermeable building wrap. Water vapor can even penetrate, to some extent, the dense closed-cell foam-board of SIP panels and condense into liquid water at the cracks created at the edges of these panels, even when caulked. It is often difficult in the field to achieve a laboratory perfect weather tight seam, particularly if construction occurs during winter or adverse weather conditions.

This problem is apparently much less prevalent in walls constructed with traditional building felts, which were previously used as a weather barrier. Building felt comes in three and not ten foot widths. Thus there are three times as many overlaps at which water can escape a typical framed or SIPS wall. Also a material analysis of building felt has shown that when subject to moisture over time, traditional felt's permeability actually increases and allows some water to escape (Please refer to pp 7-8 of an article titled *Housewraps, Felt Paper and Weather Penetration Barriers* by Paul Fisette in a series called *Building Materials and Wood Technology* published by the University of Massachusetts; [www.umass.edu/bmatwt/publications](http://www.umass.edu/bmatwt/publications)).

The first (and hopefully only) instance of pervasive rotting that has occurred in my own

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practice involved a small two-story heavy timber frame residential addition clad with SIPS and finished with cedar siding. It was essentially a stand-alone structure attached to the main building with a single enclosed connecting link. This project had been completed about fourteen years ago. I got a call from a carpenter last summer who was doing routine maintenance work saying that there might be an extensive problem. A few damaged trim boards had been removed for replacement and it was discovered the OSB outer layer of the stress skin sandwich had such extensive rot due to moisture that it was basically reduced to a mush. In consultation with the owner and carpenter we decided to check other likely areas around the entire perimeter and it was discovered this condition appeared to be fairly extensive with varying degrees of moisture produced rot. Eventually we had to remove all the cedar siding and trim. As the Typar building wrap was peeled away, water in some areas literally poured out of the OSB paneling.

Earlier we had consulted the original manufacturer of the SIPS who had not surprisingly reported similar instances of this condition. We wanted to know how to detach the deteriorated OSB panels from the isocyanurate foam and were told they had a specially adopted hotwire device they could make available for this use, but as it turned out we did not need it. Wherever the panels were sufficiently rotted to present a structural issue, we found we could simply scrape the OSB material off. Other areas were water stained, but we judged were structurally intact. In all, we removed about 20% of the paneling, especially on the north side, and replaced it with exterior CDX plywood laminated back to the foam with Liquid Nails heavy-duty adhesive, which has a weather resistance and which was recommended by the adhesive manufacturer. Furring further secured the panels as described below.

Our principal solution to keep this problem from recurring was to create a rain wall behind the building wrap, a detail I have been utilizing on all my projects in the last few years. The rain wall is simply an airspace that vents a wall much the way a roof should be vented. It can be created with a commercially manufactured product made with a randomly spun fiberglass matt about 1/4" thick and with a building wrap type fabric applied to the outside facing surface. Or, a generally much more economical solution that we utilized here was to apply 1 X 4 furring @ 12" oc vertically secured to the plywood/ OSB and to any wood framing occurring within the SIP panels. The furring was then covered with 30# building felt to create both the weather barrier and the air space. Actually we see no reason why, as long as the rain wall space is behind it, we could not now go back to using building wrap products. The siding and trim were then applied, finishing the repair. I include details for three different exterior wall types, clapboard, stucco and brick, which I have used in an effort to re-establish adequate ventilation and moisture drainage.

My engineer has encountered similar problems with inadequately vented roofs. In particular he feels the long held belief that the so called dense packed insulation, whether blown in fibers or foam board does not require ventilation is no longer valid. Similarly in working with a former building inspector in Merrimack, NH, who was quite a renowned authority on ventilation, it was demonstrated to me that traditional gable end vents to an attic, while perhaps better than nothing, are no substitute for continuous eave and ridge vents. The largest consideration is that the eave vents be sized to ensure positive airflow up to the ridge and prevent backdrafts, and that a ridge vent with adequate baffles be selected

*Continued on page 12*

## Details...

Four projects from Manchester, NH, are highlighted in the April 2010 *Architect* magazine in an article about local markets, including projects by AIANH Member Firms **Lavallee Brensinger Architects** (Hillsborough County North Superior Court), **Dennis Mires, The Architects** (New Hampshire Institute of Art), and **John Jordan Design** (Pandora Mill). The fourth project is River's Edge by Cube 3 Studio.

Go to: [www.architectmagazine.com/local-markets/manchester-nh.aspx](http://www.architectmagazine.com/local-markets/manchester-nh.aspx)

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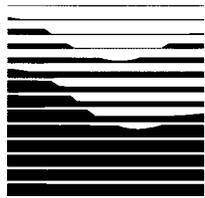


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# Homeowners Invest In Outdoors

by Amy Hoak, Reprinted from MarketWatch, April 12, 2010

Homeowners love their yards. They plant gardens, create areas for entertaining, and install decorative elements that they're as happy to look at from the kitchen window as they are from their chaise lounge.

And despite a weak economy, Americans are expected to continue this love affair with the world outside their door – and perhaps spend a little more time in it as they plan to spend their summer vacations at home.

About 94 percent of residential landscape architects polled by the American Society of Landscape Architects earlier this year said that outdoor living spaces, including cooking and entertaining areas, would be popular in 2010. That said, improvements are expected to have few frills as homeowners stick to the basics in this cool economy.

Some of the most popular features this year: outdoor seating and dining areas, including benches and seat-walls or weatherized outdoor furniture, as well as fire pits and fireplaces, the

outdoor grill and outdoor counter space, according to the survey results. More lavish outdoor kitchen appliances, including refrigerators and sinks, are expected to be less popular, as are stereo systems and outdoor heaters.

Survey results found a growing interest in low-maintenance landscapes and native plants. There's also a resurgence of the home garden.

At Home Depot, sales of seed packets for vegetable gardens were up more than 50 percent in 2009, compared with 2008, said Jean Niemi, spokeswoman for the company. Last year's popularity has prompted the company to increase the types of edible seed packets offered at the stores by 25 percent this year, she said. The stores are also planning to offer workshops on how to plant and maintain a garden.

Technology will likely play a larger role outdoors too, Rob Tannen of Bresslergroup, a product-development firm, said at the International Home & Housewares Show in Chicago recently. It's not far-fetched to imagine a shed with solar

*Continued next page*

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## Plan NH Merit Awards

Plan New Hampshire recently announced the 2010 recipients of their Merit Awards for Excellence in Planning, Design, and Development of the built environment.

Awards were given to projects in New Hampshire that have been completed since 2005 and not only exemplify excellence in sustainable planning, design, and development, but went above and beyond in the areas of smart growth principles, sustainability, social responsibility, and/or creative approaches to partnership and collaboration.

This year's honored projects were:

- The Sullivan Construction Headquarters building in Bedford, NH. 258-260 South River Road, LLC, Owner. Berard Martel, Architects.

The Sullivan Construction building combines high quality and sustainably energy-efficient renovation with preservation of key components of the old structure, and when approved by the USGBC (pending) will be

the first "Platinum certified," Commercial Interiors Building in the US.

Noted the jury: "Not only was this a skillful transformation of an existing structure to permit a 'new' building in an existing fabric, their strong educational program 'spreads the wealth' to the community."

- The Greenlands Development at Horsehoe Pond in Concord. Weston Solutions, Owner.

Weston Solutions were true visionaries to be able to turn this blighted property into the site of a LEED-certified building to be proud of. The building is close to walking and biking trails, as well as bus service and visiting employees stay in the nearby hotel so that vehicles are not necessary. The building itself has many green features, including a real-time energy monitor in the lobby and a green roof.

The jury found this project to be an "innovative, environmentally thoughtful design on a brownfields site." In addition, the "project

reinforces the successful redevelopment of a mixed use urban location."

- Cross Roads House, Portsmouth. Cross Roads House, Inc., Owner.

Cross Roads House provides emergency shelter and social services for thousands of individuals and families each year. Once a collection of inefficient buildings dating back to the 1920s, the shelter now one new building that is safer, more efficient, and significantly less expensive to maintain.

The jury saw this project as a "dignified and supportive environment for people in need of temporary housing ... [and an] excellent example of community collaboration."

- Monadnock Mills No. 2 and No. 6, Claremont. Wainshal Partners, Owner; UK Architects.

Considered the most important buildings in Claremont's historic mill district, these two buildings now form one rehabilitated structure that successfully maintains the integrity of the old features while incorporating modern necessities. In addition, site elements connect the building with the river.

The jury commented that this is a "high quality restoration that turned a serious liability for the town into an asset ... [and] reinforces the fabric and vitality of downtown Claremont."

- Form Based Code Project, Dover. City of Dover and Summit Land Development, co-owners. Berard Martel, Architects.

Adopted in 2009, Dover has the first Form Based Code in the state of New Hampshire. Yet even while it was being formulated, Summit Land Development saw the possibilities in its philosophy, and proposed a development that would eventually exemplify what a new approach to zoning could and would produce.

The jury found that this project was "an innovative rethinking of the purpose and mechanics of zoning ... and that it is noteworthy for presenting ... an example of theory in practice."

More information can be found on each of these projects at [plannh.org](http://plannh.org) – click on "Awards." ■

### HOMEOWNERSCont. from previous page

roofing panels that allow you to charge pieces of large lawn equipment, as easily as you might dock your Dustbuster inside the house. Or using iPod apps in the garden to learn how to best take care of a plant, he said.

Already, technology has entered some gardens. EasyBloom, a product that hit the market in 2008, is a sensor that collects information about the soil. You then connect it to a computer via a USB port, where collected information is analyzed to help determine what plants will thrive in that area. The tool can diagnose problems with a plant. It costs about \$40 and is sold online.

"People get bummed out when a plant is not doing well," said Matt Glenn, chief executive of PlantSense, the company that sells EasyBloom. "If you have a rose bush, put the sensor next to it and the sensor will look at the world the way the rose does."

You'll quickly learn if it isn't getting enough sunlight or has been over-watered – which can be useful for novice gardeners, he said.

When designing any outdoor area, it's important to create a series of places that you can inhabit, whether it's a covered space to entertain in or a vegetable bed to attend to, said Sarah Susanka, an architect and author of *The Not So Big House* series of books. Don't forget your garden's view from the inside either, she added.

"When I was designing my garden, I designed a view from my kitchen window," she said. "If you can see something that you find attractive day after day, you're much more likely to sit out there," she said.

And while many homeowners are making these outdoor improvements to their homes so they can enjoy them, a well-planned and maintained garden and outdoor area will serve an owner at the time of resale too, she said.

"When you have a beautiful garden, someone will fall in love with it. In fact, it's what they're purchasing – more than the house even," Susanka said. ■



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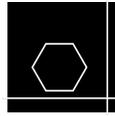
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# New Statewide NH Energy Code

*Became Effective April 1, 2010*



A new statewide energy code officially went into effect on April 1, 2010 which calls for more energy efficient building practices to be followed for all new and existing homes as well as commercial buildings. Currently, New Hampshire is transitioning from the 2006 International Energy Conservation Code (IECC) to the 2009 IECC and as a result of this transition, it is estimated that the efficiency of new residential and commercial buildings in the State could increase by 18 to 22%.

The new energy code (IECC 2009) was adopted by the NH Building Code Review Board in May of 2009, following an assurance from Governor John Lynch that NH would achieve 90% statewide compliance with the new energy code by the year 2017. This assurance secured \$25,827,000 of American Recovery and Reinvestment Act funds for the NH State Energy Programs (SEP).

Compliance with the new energy code is mandatory throughout the State of New Hampshire regardless of local codes unless the local code is stricter. After obtaining appropriate permits from the municipality or the state, anyone may perform work on his or her home or building but must still comply with all code requirements for the safety of current and future occupants.

The International Energy Conservation Code (IECC) energy code update is part of a broader code update which includes the 2009 editions of the International Residential Code (IRC), the International Building Code (IBC), the International Plumbing Code and the International Mechanical Code (IMC). These

codes are updates of the codes that became effective in 2007.

In order to better prepare builders, contractors, code officials, and other building professionals for this update to the energy code, the New Hampshire Office of Energy and Planning, through the use of American Recovery & Reinvestment Act funding, has selected GDS Associates, Inc. to help train and mobilize building professionals as well as to help create a plan to significantly improve compliance with the energy code. As part of this process, GDS is currently working towards developing a "Road Map" which will help to put NH on a path to reach 90% compliance with the IECC by 2017.

For more information on available training workshops related to the new energy code and what it means for building professionals as well as other activities related to achieving 90% compliance with the new energy code by 2017, visit [www.nhenergycode.com](http://www.nhenergycode.com). ■

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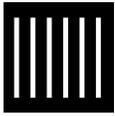


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## Update on Revision to ADA Standards



On April 26 the Department of Justice submitted revised ADA Standards for Accessible Design under ADA Title II regulations (state and local governments) and Title III regulations (private entities) to the Office of Management and Budget (OMB) for final approval. The New England ADA Center believes that the OMB has 90 days to respond which would put the regulation release at July 26, 2010 – the 20th anniversary of the ADA.

The revision adopts the US Access Board's 2004 ADA Accessibility Guidelines (ADAAG). The revisions improve the format and usability

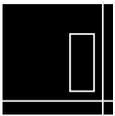
of the ADA Standards for Accessible Design; harmonize the differences between the ADA Standards and national consensus standards and model codes; update the ADA Standards to reflect technological developments; and coordinate future ADA Standards revisions with national standards and model code organizations.

Here are the links to the OMB's website:

ADA Title II [www.reginfo.gov/public/do/eAgendaViewRule?pubId=201004&RIN=1190-AA44](http://www.reginfo.gov/public/do/eAgendaViewRule?pubId=201004&RIN=1190-AA44)

[www.reginfo.gov/public/do/eAgendaViewRule?pubId=201004&RIN=1190-AA44](http://www.reginfo.gov/public/do/eAgendaViewRule?pubId=201004&RIN=1190-AA44). ■

## International Green Construction Code (IGCC) Release



Public Version 1.0 of the International Green Construction Code was publicly released in Washington, D.C. on March 15, 2010.

The International Code Council along with its Cooperating Sponsors AIA and ASTM have been joined in this effort by ASHRAE, the U.S. Green Building Council, and the Illuminating Engineers Society through their work on ANSI/ASHREA/USGBC/IES Standard 189.1, now part of the IGCC. The addition of ANSI/ASHRAE/USGBC/IES Standard 189.1 to the IGCC as an alternative jurisdictional option is an effort to unite and rally around moving the entire industry forward in support of the IGCC.

IGCC Development Concepts:

- Will use the "model" code approach
- Minimum and advanced levels of performance (Green and high-performance buildings)
- Will work as an overlay to the ICC Family of Codes
- Written in mandatory language that provides a new regulatory framework
- Will provide performance and prescriptive solutions
- Will account for local conditions
- Reflect the AIA 2030 Challenge

- Work in tandem with leading Green rating systems

- Designed with local, state & federal law in mind

Public Comment Hearings on the IGCC Public Version 1.0 comprise the next essential step in the Code Council's code development process. These hearings will involve a review of submitted public comments received during the 60-day period of March 15 through May 14, along with testimony presented at the hearings themselves. The committee's actions resulting from this process will result in the issuance of the IGCC Public Version 2.0 in November, which will serve as the working document upon which code changes will be received and considered at the May 2011 Code Development and November 2011 Final Action Hearings on the 2012 IGCC.

For advanced registration to attend the Public Comment hearings, visit [www.goeshow.com/icc/IGCCHearings/ereg401561.cfm?clear](http://www.goeshow.com/icc/IGCCHearings/ereg401561.cfm?clear). Comments received will serve as the agenda for the Hearings and will be posted on the Code Council web on July 2, 2010. For additional information visit [www.iccsafe.org/cs/IGCC/Pages/PublicVersionDevelopment.aspx](http://www.iccsafe.org/cs/IGCC/Pages/PublicVersionDevelopment.aspx). ■

## Details...

**Bruss Construction, Inc.** is the recipient of the fourteenth annual New Hampshire Construction Industry Ethics Award. The award honors the "individual, business or organization that, through its words and deeds, best demonstrates a commitment to upholding the highest ethical standards in construction."

Bruss Construction has been in business for more than 26 years. A leader in the green building movement, they have utilized sustainable building practices since the 1980s. From its projects and jobsites to its own offices, there is an intense focus on improving and minimizing its environmental footprint. The company also works hard to spread the message. They are active in many environmental, preservation, and construction groups in the State and in the community.

Those in the industry express nothing but admiration. "They are ethical to a fault," notes an architect who has worked with them on several projects. "From top to bottom, there's an overriding concern about doing the right thing. It's always a pleasure working with them because of their high standards."

A supplier who has done business with the company since 1995 says, "They're always great to work for. There's a tremendous respect for the expertise of others and they never exploit any information that's provided; if they ask for help they will not offer the contract to another firm. This promotes a working relationship based on trust."

Bruss' clients are no less effusive. "They believe you can always do it better," says one for whom the company built a LEED Platinum-certified project. "They understand what continuous learning is and were willing to do enormous amounts of research to produce a high performance building. Bruss put our needs first."

The award carries includes a \$1,000 donation to the recipient's charity of choice, which Bruss Construction has designated to go to the New Hampshire Preservation Alliance.

**IDID DESIGN AWARDS**

*Cont. from p. 1*

Design/Integrated Development is a program of AIANH's Environmental Guild. (Next month we'll report on the symposium itself.)

Awards were given for outstanding projects that demonstrate excellence in design, a substantive engagement of sustainable design principles, and that highlight the beneficial synthesis of an integrated approach to site planning, site and building design, and construction.

Winners were based on the project's beneficial impact to the physical environment and its positive affect on the cultural landscape.

Five projects received recognition.

**Honor Awards** went to:

**William Rawn Associates, Architects** and **Ann Beha Architects** of Boston, MA, for the **Cambridge Public Library**, Cambridge, MA; and

**Flansburgh Architects** of Boston, MA, for the **Hawaii Preparatory Academy Energy Lab** in Kamuela, Hawaii.

**Merit Awards** were given to:

**Next Phase Studios, Inc.** Boston, MA, and **WBRC Architects**, Bangor, ME, for the **Hannaford Brothers Grocery Store**, Augusta, ME;

**Coldham & Hartman Architects**, Amherst, MA, for the **Kathryn W. Davis Student Village**, College of the Atlantic, Bar Harbor, ME; and

**Payette**, Boston, MA, for the **Gary C. Comer Geochemistry Building at the Lamont Doherty Earth Observatory Campus**, Columbia University, Palisades, NY.

The Cambridge Public Library is a restoration and addition to Cambridge's original Main Library, designed in 1889 by Van Brunt & Howe. Saving the structure both conserved material resources and preserved an important cultural treasure. The first of its type in the U.S., a double-skin façade saves energy (50% reduction compared with conventional curtainwall) with its multi-story, full depth (3') thermal flue and deep movable sunshades. The façade also brings in natural light. Operable windows allow for fresh air throughout the year.

Jurors commented that this project is "A very successful interplay between contemporary sustainable technologies and meticulous restoration efforts."



**Honor Award:**  
**Cambridge Public Library, Cambridge, MA**  
**Architect: William Rawn Associates**  
**Associate Architect: Ann Beha Architects**  
*Robert Benson Photography*

The Energy Laboratory at the Hawaii Preparatory Academy is 5,000 sf of science classroom space for a curriculum focused on development and testing of renewable energy technologies. The project's fundamental goal is that of educating the next generation of students in the understanding of environmentally conscious, sustainable living systems, and itself functions as a zero-net-energy, fully sustainable building, so students actively learn from the built environment around them. The building is LEED Platinum and a Living Building Challenge candidate. The lab generates all power from photovoltaic and windmill sources, using only 8% of the energy it produces, the remainder being net-metered back into the campus grid.

Jurors noted that "the project is an elegant building that successfully weaves its sustainable technologies into its place in the landscape."

The Hannaford Brothers Grocery Store in Augusta, Maine, is a prototype green retail store. The project started with a box type supermarket and was transformed by design to an open, daylit, and human friendly space. The building is LEED Platinum. 50% of the site has been restored from a brownfield using native adaptive plants and meadow



**Honor Award:**  
**Hawaii Preparatory Academy Energy Lab,**  
**Kamuela, Hawaii**  
**Architect: Flansburgh Architects**  
*Photo: Mathew Millman*

cover. The project includes a 7,000 sf green roof, which also mitigates the storm water flow to the site. The store uses a 100% full-condensing heat reclaim system, allowing recovery of full heat of rejection, a system termed "green chill." On-site renewable energy is provided by 41 kw photovoltaic system located on the roof.

Jurors comments: "The potential impact of the project is greater than a single building and hopefully will become a 'transformative' model for future development. This is a good example of what can be done by a for-profit owner."

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**Merit Award:**  
**Hannaford Brothers Grocery Store,**  
**Augusta, ME**

**Architect: Next Phase Studios, Inc.**  
**Associate Architect: WBRC Architects**  
*Photo: Rick Ames AIA, Next Phase Studios*

The Kathryn W. Davis Student Village, College of the Atlantic, Bar Harbor, ME, was built to accommodate 51 students in six “houses of eight” and three residential advisor rooms. The College has declared a goal to achieve campus-wide independence from fossil fuel by 2015. The architects used a simple house plan and building form that allowed for subtle manipulation without creating awkward complexities as the house modules were rotated to extract maximum potential from each of the six situations. The module approach also contained cost.



**Merit Award:**  
**Kathryn W. Davis Student Village**  
**College of the Atlantic, Bar Harbor, ME**  
**Architect: Coldham & Hartman Architects**  
**Landscape Architect: Coplon Associates**  
*Photo: Brian Vanden Brink*

The buildings are highly insulated, thermally stabilized, with a relatively small electric load. They are separately metered to foster competition among them driving lower and lower consumption.

Jurors called this “avery successful project, green to the core. The building systems and design is very thoughtfully executed, and the project is very appropriate to its site and context. The building complex is an excellent model for other similar projects.”

Gary C. Comer Geochemistry Building at



**Merit Award:**  
**Gary C. Comer Geochemistry Building at**  
**the Lamont Doherty Earth Observatory**  
**Campus, Columbia University,**  
**Palisades, New York**

**Architect: Payette**  
*Photo: Warren Jagger Photography*

the Lamont Doherty Earth Observatory Campus is a one-of-a-kind geochemistry building. The unique performance requirements of the building presented design constraints, with vibration-sensitive mass spectrometer labs and corrosive-environment rock digestion labs presenting technical challenges at odds with a traditional sustainable design program. The architects separated intensive laboratories from less demanding office and support areas; decoupling the areas enabled the development of a highly efficient, low-impact design (with response to both energy and material use) in about two-thirds of the LEED Silver building.

Jurors stated that: “The subtle division of spaces reinforces the sustainability goals and also successfully creates interesting dynamic spaces. This project is a great example of how to approach an integrated design process, and can quite easily be seen as a model for similar development.”

Jurors for the 2010 IDID Sustainable Design awards, all from Philadelphia, PA, were Kelly French Vresilovic, AIA, LEED AP and Wolfram Arendt, AIA, LEED AP, Bohlin Cywinski Jackson, Architecture, Planning, Interior Design; Richard Roark, RLA, ASLA, LEED AP, The Olin Studio; Fredda Lippes, RA, LEED AP, Design and Construction Project Manager, City of Philadelphia, Mayor’s Office of Sustainability; Daniel K. Garofalo, AIA, LEED AP, Environmental Sustainability Coordinator, University of Pennsylvania; Jason E. Smith, AIA, Kieran Timberlake.

For color photographs, please see the AIANH web site, [www.aianh.org/ididcall.asp](http://www.aianh.org/ididcall.asp). ■

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### VENTILATION *Cont. from page 5*

to minimize the intrusion of water or snow due to high winds. The following data may be of assistance to those unfamiliar with sizing eave and ridge vents as they might pertain to a conventional home or similar structure:

The net free air flow capacity of a 12" length of standard 2" wide aluminum louver soffit vent is approximately 9 square inches or 18 square inches when adding the corresponding vent on the opposite side of the house. A standard ridge vent such as Cobra Vent provides approximately 17 square inches of net free ventilation area per linear foot (this needs to be confirmed in the specifications of each model). Thus the capacity of the soffit and eave vent are approximately equal, and are considered to provide approximately 35 square inches total net free ventilation per lineal foot of building length.

I understand the new 2009 International Building Code states that the net free natural ventilation provided for a roof shall not be less than 1/300 the plan area under the roof. My engineer strongly advocates staying with the 1/150 figure requirement of the 2006 IBC, noting it remains in the Canadian code. My engineer cites that a school built recently up here was discovered to have significant ventilation deficiencies, and that correcting the resulting problems with the wood roof trusses involved a major fix. Thirty five square inches of ventilation would be adequate for a home or other small building with a total width between eaves up to 36 feet. This can be seen by dividing the 36 ft. width X 1 SF by 150 which would equal 0.24 SF, or 34.5 square inches of vent space. Obviously for larger gable roof structures, this is not adequate, and provision for augmenting the capacity must be provided. Similar accommodation must be made for those structures with shed or flat roofs. For flat-roofed commercial buildings this is normally accomplished mechanically in the HVAC system.

We invite your comments on our thoughts. They are our own observations and conclusions based on our experience and which we believe to be valid, but this is an evolving science and as such we do not present them as gospel. We would welcome any further thoughts and differing views. ■

Send letters to the NH Forum to [office@aianh.org](mailto:office@aianh.org). You can email Tim Sappington AIA at [sappingtondesign@ne.rr.com](mailto:sappingtondesign@ne.rr.com)

### AIANH-PlanNH Special Awards

*Continued from page 1*

portunity to visit the Discovery Center and its exhibits. The Observatory will be open, and use of the state-of-the-art telescope available. (Alternative plans in case of rain!)

Following a reception with heavy appetizers and a cash bar, awards will be given to outstanding students in the AIANH High School Design Competition and to PlanNH and AIA/NH Architecture Foundation undergraduate and graduate students in the fields of architecture, interior design, engineering, and other disciplines related to sustainable planning, design, and development of the built environment.

Please join us to support these young students who will be entering the planning, design, and engineering fields.

Doors open at 6:00. For more information and to register, go to [www.aianh.org/aia\\_events.asp](http://www.aianh.org/aia_events.asp). ■

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# Crash Course in Sustainable Design

by Duffy Monahon, Richard M. Monahon Jr. AIA Architects

**L**The Leeson House in Taos, New Mexico is a 3000 sf house built by our daughter's family. In designing it over four years, Rick and I were reminded of what architects and the country were doing during the first energy crisis. And with the team, we learned about sustainable and healthy buildings, solar and new mechanical systems. It was a crash course in dew points, blower door tests, HERS ratings and LEED.

The Build Green New Mexico National Home Builder's guidelines criteria are nearly identical to those of LEED Residential 2008. New Mexico offers up to a \$13,000 tax credit

directions. The climate is DOE Zone 5; the same as New Hampshire. Temperatures and relative humidity change up to 30 degrees per day every day, wind gusts can occur at 45 mph swinging from NE to SW each day bringing cold morning air from the mountains. The L shaped house is sited to shield the NE wind and for passive solar gain.

The Acequia, the 500-year-old Spanish interconnected irrigation community ditch system running from mountain streams, flows into the site. Landowners divert water for irrigation on their allotted days. The house was sited close to disturbed land and in an area that the acequia does not reach in order



for the home owner and \$2,000 for the contractor. The HERS rating was 56 and enough points were scored in the 7 sections to achieve Platinum, the highest level. The owners were involved in all phases and construction. The blower door test, done at the completion, showed very little infiltration, due to one of the owners' vigorous caulking and sealing of all joints. The earned tax credit was \$11,000 which was sold to a broker for \$8,000.

At a 7000 foot elevation, the 1.5 acre is in the high desert plateau at the base of the Sangre de Cristo mountains. Views extend in all

to preserve an alfalfa field. Irrigation comes within six feet of some parts of the house. A system of gutters diverts water into a 2000 gallon underground cistern to provide irrigation for the only mowed grass area defined within the L shape house and portals.

Portals, roof overhangs, and fruit trees shade the summer sun on the west and south creating a warm SW respite protected from the strong winds. Views extend in every direction and visual transparency flows through the house and portals. The owners wanted a design

*Continued on page 14*

## Furniture Masters and NH Art Association Joint Exhibit

Members of the New Hampshire Furniture Masters Association (NHFMA) will join forces with members of the New Hampshire Art Association (NHAA) in the collaborative exhibition Furniture as Art/Art as Furniture, May 5 -June 5, 2010.

The exhibition, which features works by 14 Furniture Masters and 18 NHAA artist members, will be on display at the NHAA's Robert Lincoln Levy Gallery ([www.nhartassociation.org/levy\\_gallery](http://www.nhartassociation.org/levy_gallery)), 136 State Street, Portsmouth, NH. Gallery hours are Wednesday through Saturday, 10 a.m.-5 p.m.; Sunday, 12-4 p.m.; the gallery is closed Mondays & Tuesdays.

"The Furniture Masters are delighted to have this opportunity to exhibit alongside fellow artists from across the state," noted NHFMA Chair David Lamb. "This exhibition also represents an exciting opportunity for the public in that virtually all of the work is for sale. If you'd like to see some of the best art being done in the state today and potentially add a piece to your collection, Furniture as Art/Art as Furniture is one exhibition you won't want to miss!"

More information at: [www.furniture-masters.org](http://www.furniture-masters.org).

## Details...

Construction of the new Northeast Rehabilitation Hospital at the Pease Tradeport Campus in Portsmouth, NH, is about to begin. **JSA, Inc.** of Portsmouth, NH is the architect for this project, to be built by **North Branch Construction, Inc.** The hospital will be ready for occupancy in the spring of 2011.

The 46,000 sf, two-story facility is the third inpatient hospital for the Northeast Rehabilitation Health Network with similar facilities in Salem and Nashua, NH. The new 33 bed inpatient acute rehabilitation hospital will serve the acute rehabilitation needs of the seacoast of NH, ME and MA. The Northeast Rehabilitation Health Network also has several outpatient locations throughout the Merrimack Valley in Massachusetts and southern New Hampshire.



Rendering by JSA, Inc.

### *TAOS HOUSE, Cont. from p. 13*

reflecting Spanish territorial and pueblo adobe style. The gabled two story bedroom block connects to the lower gabled kitchen, living, dining room through an adobe mass balanced by the south facing adobe sunroom/plant room at the living room's other end.

Radiant heat is in the concrete slab, finished with a concrete and a polymer top coating.

The first floor wall section uses 14"-deep adobe bricks made locally. The second floor wall and roof are framed with 2x s at 24" oc. A 2" 2 lb. polyurethane spray foam was applied to the exterior walls up to the roof rafters and finished with stucco. Dense cellulose fills the wall cavities. The interior adobe walls have trowelled on plaster. The roofs have 5 1/2" polyurethane foam between the rafters. Strapping minimizes thermal bridging. The R-value for the walls are 28-32, the roof is 39. The two-story gable roof has a conditioned attic. Framing for the adobe section roofs and second story floor system are 9 inch round vigas with 1 1/2" T&G pine flooring, and the portal roof beams and decking, all were locally cut.

The percentage of window openings per elevation exposure, the shading, and the thermal mass of the wall and slab met the standards for the passive solar heat credit. A fan draws the heat stored in the sun room slab and walls into the living room. Ceiling fans move the air to the two-story stair case. Operable windows at the top circulate air upstairs. On June 24, the interior temperature range was from 61 to 65 degrees while the outside temperature reached the 80s. The shaded portal doors were open.

### *YAC, Cont. from p. 3*

Exams. Led but Tony Coviello, PE of Summit Engineering in Portsmouth, NH, the review went over the identification and incorporation of general structural and lateral force principles in the design and construction of buildings. His highly qualified knowledge and ability to convey these principals simply and effectively over a two-hour session assisted the 12 soon-to-be-licensed architects with their studies for this exam. Again I want to thank Tony for taking the time out of his busy schedule to help us. After this session I didn't realize how much we all really needed this review of general structural and lateral force principles.

If you or anyone you know would like to be added to the email list please send a quick email to [nates@tms-architects.com](mailto:nates@tms-architects.com). ■

Tax credits for solar and photo voltaic were not included in 2009. Although, installation costs will further delay solar, the wiring is in place for a roof photo voltaic system and insulated pipes were laid to the solar panel location.

The water heater for the radiant floor and domestic hot water is a Munchkin Contender gas condensing boiler 33,000-80,000 BTU variable flame rate, 95.1% efficiency with a 5 gallon side loop and a 45 gallon Superstor. To store hot water, the radiant floor piping is 5/8" rather than 1/2." There are seven zones. Only the upstairs bathroom radiator was needed this year.

Marvin Clad insulated windows with low E, no Argon at that elevation, a combination of clad and wood doors, and Rogue Valley doors were used, depending on the weather exposure in order to reduce the initial cost. Each room has cross ventilation and double hung windows.

Humidity and air ventilation are controlled by the two bathroom exhaust fans. The conditioned attic is wired for an air to air heat exchanger if one had been needed. Every product met the California standards for VOCs. Air quality was enhanced by a two-month airing out. ■

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# Construction Summary

**Project Type:** Restroom Renovations  
 (State House Annex)  
**Cost:** \$73,823  
**Location:** Concord, NH  
**Owner:** State of NH-DOT  
**Architect:** Tennant Wallace Architects  
**Engineers:** WV Engineers  
**Gen. Cont.:** Wesfield Construction

**Project Type:** Hampton Beach State Park  
 Redevelopment  
**Cost:** \$13,804,000  
**Location:** Hampton, NH  
**Owner:** State of, NH  
**Architect:** Samyn Delia Architects  
**Engineers:** Vanasse Hangen Brustlin Inc.,  
 CPB & Associates, Yeaton Associates,  
 Foley Buhl Roberts & Associates  
**andscape Architect:** ORW Landscape  
 Architects & Planners  
**Const. Mgr:** Harvey Construction Corp of NH

**Project Type:** Fire Station #1 North  
**Cost:** \$1,443,000  
**Location:** Londonderry, NH  
**Owner:** Town of Londonderry  
**Architect:** Sumner Davis Architects Inc.  
**Engineers:** Rist Frost Shumway Engineering,  
 Yeaton Associates, JSN Associates  
**Gen. Cont.:** Seaver Construction

**Project Type:** New Police Station  
**Cost:** \$800,000  
**Location:** Center Harbor, NH  
**Owner:** Town of Center Harbor  
**Architect:** Goudreau & Associates Architect  
**Engineers:** TF Moran, WV Engineers  
**Const. Mgr:** Bonnette Page & Stone

**Project Type:** Lighting Improvements  
 (Whittemore Center)  
**Cost:** \$219,900  
**Location:** Durham, NH  
**Owner:** University System of NH  
**Architect:** Oak Point Associates  
**Contractor:** Gemini Electric Inc

**Project Type:** New Idlehurst Elementary School  
**Cost:** \$16,000,000  
**Location:** Somersworth, NH  
**Owner:** Somersworth School District  
**Architect:** Harriman Associates  
**Engineers:** Harriman Associates  
**Const. Mgr.:** Bonnette Page & Stone

**Project Type:** JPSA Building Additions  
**Location:** Manchester, NH  
**Owner:** Dalser Realty LLC/JPSA Inc  
**Architect:** Berard Martel Architecture Inc  
**Const. Mgr.:** Jewett Construction

**Project Type:** Lochmere Meadows Apartments  
 (28 Units) (4 Buildings)  
**Cost:** \$3,475,000  
**Location:** Tilton, NH  
**Owner:** Lochmere Meadows Affordable  
 Housing Limited Partnership  
**Architect:** George Hickey  
**Engineers:** HL Turner Group, WV Engineers,  
 Labombard Engineering  
**Gen. Cont.:** Gary Chicoine Construction Corp.

**Project Type:** Avis Goodwin Community  
 Health Center Medical office Building  
**Location:** Somersworth, NH  
**Owner:** Avis Goodwin Community Health  
 Center  
**Architect:** Warrenstreet Architects  
**Engineers:** Norway Plains Associates  
**Proj. Mgr:** Jobin Construction Consulting  
**Gen. Cont.:** Hutter Construction Corp

**Project Type:** Arts Facility Addition  
 (Slocumb Hall)  
**Location:** Andover, NH  
**Owner:** Proctor Academy  
**Architect:** Banwell Architects  
**Engineers:** Steven Smith & Associates,  
 Defiance Electric, John F Penney  
 Consulting, MJS Engineering  
**Const. Mgr.:** Trumbull Nelson Co

**Project Type:** 2010 Machine Replacement  
 (Dartmouth Printing)  
**Location:** Hanover, NH  
**Owner:** Dartmouth Printing  
**Architect:** Fleck & Lewis Architect  
**Engineers:** Stantec, Yeaton Associates  
**Const. Mgr.:** MacMillin

**Project Type:** Land Port of Entry Border  
 Station (Design/Build)  
**Cost:** Approx. \$7,500,000  
**Location:** Pittsburgh, NH  
**Owner:** US Army Corps of Engineer  
**Architect:** Plans c/o Design Build Contractor  
**Design/Build Cont.:** Catamount Constructors

**Construction Summary is provided by  
 Construction Summary of NH, Inc.  
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## Calendar of Events

**May 5-June 5** NH Furniture Masters & NH Art Association Exhibit, Robert Lincoln Levy Gallery, Portsmouth, NH, ([www.nhartassociation.org/levy\\_gallery](http://www.nhartassociation.org/levy_gallery))

**May 24 Special presentation:** Mark Moeller AIA, LEED AP, Design Principal of JSA Inc. gives a presentation on his travels abroad as a ROTCH Scholar, at JSA, Inc., Portsmouth, 5:30-7 pm. **Hosted by AIANH Young Architects.** Bar-b-que following the presentation. Free of charge, but PLEASE contact Nathan Stolarz, TMS Architects, if you plan to attend ([nate@tms-architects.com](mailto:nate@tms-architects.com), 603-436-4274)

**May 25** Improving Your Forest for Wildlife, 12:30 pm-4:00 pm, Northwood Town Hall, Info.: Matt Tarr, 603-862-3594, <http://extension.unh.edu/events>

**May 26 AIANH and PlanNH Special Awards Night,** McAuliffe-Shepard Discovery Center, Concord. Sponsored by **Foard Panel.** [www.aianh.org/aia\\_events.asp](http://www.aianh.org/aia_events.asp)

**June 2, June 3 Google SketchUp Essentials.** Offered two days, with Essentials 1 and 2 both days, Microdesk, Nashua, NH. Taught by Leo Salce, Technical Specialist, architecture/structure, and sponsored by Microdesk. Course **presented by AIANH.** 3 AIA CEUS per session, [www.aianh.org/aia\\_events.asp](http://www.aianh.org/aia_events.asp)

**June 2** GIS 101: Learning to Map in a Digital World, 9am-12pm, Laconia, NH, UNH Coop Ext., Info.: Sharon Hughes, 603-862-1029, <http://extension.unh.edu/events>

Making Maps the Google Way, 5:30 pm-8:30 pm, Laconia, NH, UNH Coop Ext., Info.: Sharon Hughes, 603-862-1029, <http://extension.unh.edu/events>

Bringing Sustainability Planning to Your Community, 9:30 am-4 pm, Portsmouth, NH, Info.: Barbara LeHoullier 603-862-1095, [www.nh.gov/oep/events](http://www.nh.gov/oep/events)

**June 3** Fair Housing FIRST Accessibility Training, Thomas P. O'Neill Federal Building, Boston, 8:30 am to 4:30 pm, 6 AIA CEUs. Space is limited. Register with Sam Young, [samyoun@deloitte.com](mailto:samyoun@deloitte.com), 202-904-6391. Conducted by HUD's Fair Housing Accessibility FIRST program along with the Boston Office of Fair Housing and Equal Opportunity and the Institute for Human Centered Design

**June 8** Accessibility in the Design and Construction of Multi-Family Housing, U.S. Department of Justice, Westin Copley Place Hotel, Boston, 8:30 - 11:00 am. To register send an e-mail with your name organization, and contact information, to [accessforum@usdoj.gov](mailto:accessforum@usdoj.gov). Information: [www.justice.gov/crt/housing/fairhousing/access\\_forum.htm](http://www.justice.gov/crt/housing/fairhousing/access_forum.htm)

**June 15** Managing Fields and Shrublands, 12:30 pm-4 pm, Waste Management, Rochester, NH, UNH Coop. Ext., Info.: Matt Tarr, 603-862-3594, <http://extension.unh.edu/events>

**June 17 AIANH Annual House Tour:** AIA CEUs, Details at [www.aianh.org/aia\\_events.asp](http://www.aianh.org/aia_events.asp)



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## Photo of the Month



**Fifth floor window,  
Ogden Museum of  
Southern Art,  
New Orleans, LA**

**by Carolyn Isaak,  
Executive Director, AIANH**

**We are in need of new photos!**  
Why not send us one of your photos for 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](mailto:office@aianh.org).