



NH forum

AIA New Hampshire

For those who shape the built environment



AIANH's 2014 Awards
Gala last January...
Please join us on
January 23, 2015

31st Annual Awards Gala Jan. 23



Please join us for our 31st Annual AIANH Design Awards at LaBelle Winery in Amherst on January 23. Help us celebrate architecture in New Hampshire and the achievements of the AIANH Chapter. You don't have to be winning an award to attend, as it is a fun event for everyone. Bring your spouse or partner, staff members, and friends for a great night out!

We extend another huge thank you to our terrific sponsors for the AIANH Excellence in Architecture Awards Program, **Spaulding Brick Co.** and **Charron Inc.** Please let Jeff Shinn and Rik Gelinas from Spaulding Brick Company and Dan Barnard from Charron know you appreciate their support of the Design Awards program. We would be unable to finance this program without their help!

You can **vote for YOUR favorite projects** in our People's Choice Awards program. All submissions are online. View them and vote at: www.aianh.org/vote-design-awards. We'll announce the People's Choice winners the night of the banquet.

Watch for your invitation to the Annual Meeting and Awards Banquet in the mail. We hope to see you there! (You can register online at www.aianh.org/news/aianh-events.)

In the meantime, the AIANH Board and staff wish you the happiest of holidays. ■

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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.

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Perspective

Point of view from the President of AIANH
Shannon Alther AIA



So it is December and that means this is the last article required in fulfilling my “article writing” obligations for the *NH Forum Newsletter*. I know this is not a conventional article, but my goal this year was to be unconventional:

- March: IQ Test
- April: Most Interesting Man in the World
- May: Please Draw Today
- June: On Sketching
- July/August: Unofficial Guide to the AIA Convention
- September: TV and Architecture
- October: Quantum Mechanics
- November: Kragle
- December: Exit Strategy

The year has sped by, which seems to be the case for most years, so hopefully you are used to it. I hope the articles for 2014 have been entertaining at a minimum. If not, then you are in luck because we found a new writer to take over for 2015. He is a great guy and will offer worldly advice to you all.

I wanted to take this last writing opportunity to thank a few people who have put a lot of time into AIANH and have helped to make our profession and the year that much better.



Karolina Burt AIA: Thank you for the years of service and commitment to the Chapter. Enjoy your much deserved vacation!

Matt Lawton Assoc. AIA: As the Associate Director you did a great job! Good luck out there in the real world...It is all puppies and ice cream.

Paul Bourbeau AIA: You are up next, and I know you will put a new spin on things. Good luck.

Carolyn Isaak Hon. AIANH: You rock! Your enthusiasm and guidance are a welcome part of the Chapter, and you definitely do a ton of work behind the scenes. Thank you very much.

AIANH Board: Thank you for the effort and excitement with AIA2030 this past year. I have enjoyed working with all of you and look forward to the upcoming opportunities for AIANH and its members.

So without further ado...go do some drawing. ■



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Emerging Professionals Network

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



The Architect's Christmas Tree

It's that time of year again, and I'm sure I am not alone in being asked, "What do you want for Christmas?"

(Or Hanukkah, or whatever seasonal holiday you celebrate). Every year, it's a challenge to develop the list, because for so many of us, we are focused on our careers, and not on the holiday season. We all know that while the calendar may say December, and the year is coming to a close, often our time is at a premium.

So this year, I've gone and looked at various lists, and I've found some things that any architect may enjoy. For Christmas this year, I want reasonable work hours, clients with unlimited budgets, and projects that are zoning- and planning-board approval-free. Oh wait, those are unattainable...

Here are some things I'd certainly like to see under my tree, and under yours as well.

Tools. There isn't a single one of us who isn't working on some home project, be it a simple repair or a major renovation.

Journals and notepads. You can go further and get a nice padfolio, because most of our work is still done in meetings, where you need to take notes down. Or make a quick sketch. Have you ever complained that you had something to write on?

Speaking of writing, the next item is *pens*. Sketch pens are great, but even the simplest ballpoint or roller ball pen can make the dif-

ference between a good day and a bad day. I know one of my biggest accomplishments in a new job is to change the stationery to something I enjoy using on a daily basis.

Beverages. Be them wine, beer, other spirits, or even teas or coffee; we all have some vice. The latter items often help us make it through our day, so a nice mug to enjoy the coffee, tea, or cocoas would go a long way. Better yet, look at travel mugs, since we're never really at one spot for too long.

Toys. Yes, we may be adults, but we still like to spend idle time doing something with our hands.

Books. Let's face it, architects like books. I'm sure we have all gotten our fair share of Frank Lloyd Wright books over the years, but it's the less-common names that are often more interesting. The images inspire us, the content enriches us, and the projects make us jealous.

Toys. Yes, we may be adults, but we still like to spend idle time doing something with our hands. At a recent gathering, there were several puzzles scattered about the room, which required you to take the sphere or box apart into its pieces and then reassemble using the only one way it would work. Needless to say, these puzzles even stumped a room full of architects and designers. But other toys are wonderful too. For the builder, and those longing for a bit of nostalgia, Lego has an architecture series with various famous landmarks you can build. More recently, they've started releasing core building sets, of white blocks that you can build your own masterpieces.

Is there something on the list, or something I've missed that you'd like for Christmas? Let us know and we can share it with the masses.

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

Details...

Eckman Construction received two awards at the recent New Hampshire/Vermont Chapter of Associated Builders and Contractors (ABC): an Excellence Award for their work at the Manchester Country Club in Bedford, renovations designed by **Dennis Mires The Architects P.A.**, and a Merit Award for the new Student Center at Manchester Community College.

"We are very proud of what we were able to deliver to both the Manchester Country Club and Manchester Community College," said Preston Hunter, Vice President, Eckman Construction. "These project results are really a testament to the collaborative effort of the architectural teams, project owners, and subcontractors that worked with us to achieve some really great facilities. This award belongs to them as much as it belongs to us."

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A Visit to St. Mary's Bank

AIANH Chapter Meeting review



Over fifty AIANH members and guests attended AIANH's November 6 Chapter Meeting at St. Mary's Bank in Manchester, followed by a gathering at the Riverside Room in the historic Waumbec Mill.

We were treated to a tour of the building and a presentation on its history and design by Dale Doller AIA, Lavallee Brensinger Architects; Scott LeClair, Fitzmeyer & Tocci; Rich Roberts, Foley Buhl Roberts Associates; Eric Kissner and Anne Dodd, Harvey Construction Company; Bob Duval, TF Moran; and Dawn Horan, Stibler Associates.

St. Mary's Bank is the Nation's first Credit Union, headquartered on the same property since 1930. Its original building included a curved stone façade that defined the most notable intersection on the city's west side. It was replaced in 1970 with a concrete building that served as the bank's headquarters until 2014. The new 28,000 sf building recaptures the corner with its unique form, both elegant and distinct. It is this juxtaposition of an historic stone building against views to its state-of-the-art contents that captures the essence of St. Mary's Bank: rooted in history and

authentic, yet modern and progressive. The building's unique form serves the bank well, with offices and support spaces efficiently configured along the square sides, and the signature lobby shaped by the curved façade. A limestone exterior was chosen because of its enduring quality and as a nod to the original curved stone bank built on the site more than 80 years ago.

We toured both public and office spaces on three floors and enjoyed looking at the wonderful graphic elements on glass and metal, which represent the unique history of the bank. Elizabeth Hummel from Image 4 was present to talk about these impressive graphic images. We also viewed St. Mary's photovoltaic array and learned more about it from Heather Fournier of ReVision Energy.

Walter Gardner and Elizabeth Stodolski from St. Mary's Bank participated in the tour and presentation as well. We thank them for the opportunity to visit this beautiful new building.

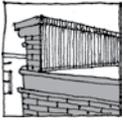
Our sincere thanks go to **Consolidated Brick** for sponsoring this event. Mary Sears and David Mendzela represented Consolidated Brick at the event. ■



Dale Doller AIA, Lavallee Brensinger Architects; Scott LaClair, Fitzmeyer & Tocci; Dawn Horan, Stibler Associates; Eric Kissner, Harvey Construction Co.; and Rich Roberts, Foley Buhl Roberts & Associates. Photos by John Hession.

Structural Column

by Jeff Karam PE



Parapets and Snow loads

Renovations almost always require some creative engineering. When modifying a member, or the loads it will resist, the International Existing Building Code dictates that a member must be brought to current code if the modifications exceed a limit. There are numerous ways in which the load attributable to a member may be modified. One less obvious cause of a change in gravity loads on a structure is a result of the addition, or enlarging, of a parapet. The dead load, or self weight, of the parapet is an obvious cause that could lead to more load on a member but it's often not as critical as the increase in snow load a parapet may create.

A parapet serves as an impediment to snow blowing of the roof. Therefore, if there has already been a snow event and the wind blows towards the parapet it's predictable that a snow drift will be formed. A textbook snow drift is triangular in shape and is assumed to be present atop the code balanced

snow load, meaning the drift is assumed to act concurrently with the design snow load. It is very likely that this drift will cause an overstress exceeding the IEBC limits for the supporting members. Further complicating the issue of assessing an existing roof for changes in snow loads is the history of design snow loads within the state. In the not too distant past snow loads were not as well codified as today, so many buildings were never designed to resist well studied snow loads in the first place. Essentially, this means one should expect that adding a parapet will necessitate structural modifications.

Similarly, another section of the code for snow loads (ASCE 7) covers the effect on a lower building within 20 feet of a higher structure. Imagine a neighbor adding another story to their structure located less than 20 feet from your building. The code requires that "owners or agents for owners of an existing lower roof shall be advised of the potential for increased snow loads..."

Personally, I'd be very interested to see this play itself out given that perhaps the owner of the lower roof has no interest or means to renovate their structure! Maybe some of you have worked on projects that have seen this scenario play out? If so please let me know a little about how things transpired.

Thank you for reading. If you have comments or suggestions for future columns relating to the practice of structural engineering please contact me via jeff@evergreenstructural.com

— Jeffrey Karam PE is the principal of Evergreen Structural Engineering, PLLC, www.evergreenstructural.co

St. Mary's Bank: Three groups worked their way through three levels of the building, meeting tour guides along the way. A dinner and presentation followed at the Riverside Room in the Millyard.



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November
Chapter Meeting
at St. Mary's Bank

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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?

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Florence at a Glance Part II of a Series

Text and photos by Bruce Hamilton AIA



On a visit to Florence, Italy this past September, one member of our tour group had a list of the most important works of art to be found in the city. Noted at the top was the title “Masterpieces Checklist.” When I asked him how he was going to use this compilation, he explained that once he visited a Renaissance masterpiece on his list, he’d make a check mark next to the work of art and then move on. He shrugged regretfully, as if to say: too much art, too little time.

No city other than Florence possesses such an intense concentration of art produced in such a short span of time, from the 1300s through the 1500s. The sheer number and proximity of renowned paintings, sculptures, and architecture in Florence can cause visitors who try to see them all in a day to succumb to artistic overload. The malady consists of symptoms such as dizziness, confusion, and overwhelming exhaustion from trying to see too many works of art in too short of a time. A visit to Florence should be enjoyable, exciting, and inspiring. Armed with an idea of which prominent works of art to observe and the pertinent information pertaining to each

one, we were able to successfully navigate the museums as well as the city streets, piazzas, and churches.

Our guided tour in Florence encompassed its rich historical and artistic heritage and began at one of the world’s great museums, located on the Piazzale degli Uffizi – the Uffizi, the world’s finest repository of Italian Renaissance art. This museum is like a visual textbook to the Italian Renaissance – a systematically organized exhibition space designed for public viewing. Here we were able to view the transition from the Byzantine Art of the Middle Ages to the flowering of the Renaissance. It presents the works in chronological order starting with Giotto, whose style is considered a precursor to the Renaissance. The Uffizi offered us an unrivaled opportunity to view some of the greatest works of art in Florence. Visiting this marvelous art gallery in a mere morning – as many visitors do – could be described as criminally negligent.

After our breath taking excursion through the Uffizi, we embarked on an implausible journey through the medieval streets of Florence to the “Cathedrale di Santa Maria del Fiore,” the Duomo of Florence located on Via

View of Florence from the Hilltop





Above: Cathedrale di Santa Maria del Fiore. The photo on the right shows the Neo-Gothic façade covered in Tuscan marble.

Del Proconsolo, which dominates the city with its enormous Brunelleschi's Dome. The Cathedral's Neo-Gothic façade is covered with pink, green, and white Tuscan marble. Entering the Duomo, we were struck by the Cathedral's vastness and the sobriety of the furnishings. The rich, multicolored patterns of the exterior give way to the simplicity that underscores the titanic dimensions of the Cathedral. The relative bareness of the interior corresponds to the spiritual austerity of Florence during the Middle Ages and Early Renaissance. The enrichment of the interior, with splendid floor decoration in colored marble and temple-niches on the walls, dates to the 16th century. As we climbed the 463 steps to the top of Brunelleschi's Dome, we were able to see how the inner shell provides a platform for the timbers that support the outer shell. The exterior bricks of the Dome are set in a self-supporting herringbone pattern – a technique Brunelleschi copied from the Pantheon in Rome.

Our exploration of the city eventually brought us to the magnificent Gothic Basilica of Santa Croce located at the Piazza Di Santa Croce. The

Continued on p. 12



Above: Gothic Basilica of Santa Croce

Left: Statues of David and Hercules & Cacus and the Neptune Fountain: Roman sea-god surrounded by water nymphs

Details...

Fulcrum Associates recently completed construction of a 3,600 sf addition to Primary Care of Hudson. Fulcrum partnered with **Dennis Mires The Architects P.A.** for the design-build effort, with site engineering prepared by Hayner & Swanson. Gary Manoogian and Ralph Fair lead the team for Fulcrum along with **Steve Peach AIA** from Dennis Mires P.A. Originally developed in 2006 by Foundation Medical Partners and the Southern New Hampshire Health System, the addition will house Primary Care of Hudson's' expanding practice. The existing facility also houses Southern New Hampshire Rehabilitation Services as well as laboratory and radiology services.

Fulcrum Associates has also completed construction of a new 2,550 sf medical office building at 2 Washington Place in Bedford. The new multi-gabled single story building has a blend of shingle and clapboard siding with classic New England style trim detailing. The building will provide space for the practice of Dr. Daniel Sterling, MD, FACS. Dignard Architectural Services provided design services while Meridian Land Services provided the civil engineering services for the project.

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

by Dale Doller AIA, LEED AP

The mission of the AIA 2030 Commitment program is to take the aspirational goals of 2030 and transition to the reality of achieving tangible, strategically targeted, performance goals on every project we touch.



Session VIII, November 20, 2014 —

Site Power: Renewable Energy Opportunities

We offer our thanks to our presenters, Fortunat Mueller PE, partner and co-director of ReVision Energy in Maine and NH and to Steven Strong, president of Solar Design Associates, LLC. We sincerely thank them for sharing their expertise so that we may learn and make better choices for our clients in our ever-changing environment!

We have come a long way since the AIA+2030 series began last March. Through the assistance of our expert presenting professionals, we have investigated ways to establish our building design and energy goals for improved efficiency. We have looked at ways to take advantage of site conditions and building orientation. We have discussed the importance of an energy efficient building envelope and how to take advantage of the sun's energy to warm our interior

environment through passive solar design. We learned ways to reduce our energy loads through options for lighting, systems, and equipment and then to take advantage with natural lighting to support interior space illumination. And, we have reviewed how to "right-size" our mechanical systems to provide for a comfortable indoor environment to live and work. All these steps need to be taken so we can conserve energy and reduce our reliance on fossil fuel.

And as we reduce building energy loads, we can take advantage of on-site renewable energy opportunities. In this last session, we looked at those opportunities for on-site and off-site renewable energy sources. Through the assistance of Fortunat and Steven, we investigated and explored the options and actual successful solutions used to integrate into building projects.

Fortunat reviewed the big picture of energy



Steven Strong shared a number of amazing case studies in which his company has participated in the design and integration of on-site renewable energy. Photo by John Hession.



The team for Session VIII of the AIA+2030 Series: Presenter Fortunat Mueller PE, session organizer and AIANH Vice President Jay Purcell AIA, and presenter Steven Strong. Photo by John Hession.

fuels available to us. They include conventional non-renewable fossil fuel sources like coal, petroleum (oil), and natural gas, and a natural source of uranium used in nuclear energy production. But, there are renewable energy sources like wind, biomass, hydro, geothermal, and tidal which we can also use. And, of course our largest unlimited energy source is from our sun. Germany leads the world in renewable solar energy use. Amazingly, our own United States has 33% greater solar energy potential available than Germany. Yet Germany has taken the lead to increase the use of renewable energy. Alaska matches Germany's location based on the earth's latitude and the potential solar energy production. The selection and integration of renewable energy sources for our buildings need to be evaluated carefully based on site specific location to select an appropriate application.

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Fortunat reviewed different system technologies that utilize on-site renewable energy. They include heat pumps, resistance electricity, solar thermal heating and domestic water heating, and biomass. And, he also reviewed systems that can utilize renewable electric generation such as solar photovoltaic panels, wind turbines, fuel cell systems, and biomass. Each system likewise requires site specific evaluation for its best application to each unique project.

The economics of integrating on-site located renewable energy sources were also discussed. As has been said in previous presentations, "Reduce, reduce, reduce, and then reduce some more"! The design process to reduce and control energy usage is essential as the first step to making a renewable energy system affordable. Photovoltaic panel costs have reduced drastically in the last 10 years making them a superior solution. And there are incentives offered on State and Federal, utility, and private levels that can be employed to assist in the integration of renewable systems.

Steven Strong shared a number of amazing case studies in which his company has participated in the design and integration of on-site renewable energy. One of the most recent and well known projects reviewed was

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Details...

A facility Training Center for Liberty Utilities, designed by **CMK Architects**, is under construction by **North Branch Construction, Inc.** Located on Broken Bridge Road in Concord, the new 6,000 sf, two-story masonry and steel building will contain two classrooms with SMART Board technology. The open training bay will include telephone poles for linesmen training and will also have several pieces of mock equipment that Liberty Utility employees will train with including transformers, gas ranges, air compressors, boilers, steam systems, parlor heaters, switching modules, and power panels. The center will also have an area designated for gas leak detection training. This building is the first of its kind for Liberty Utilities, with all training consolidated into one location, and will be completed in May 2015.

Bruce Blazon has been named General Manager of **North Branch Construction, Inc.** Blazon is a project manager/estimator who has been with North Branch Construction for over 22 years and has served as vice president and principal of the firm since 2004. In addition to continuing to oversee the Tools & Equipment department as well as North Branch University and Training, Blazon will now be responsible for oversight of operations including Safety, Service, Quality Control, Buildings & Grounds, and Field Personnel.

Road Trip to RPI

Text and photos by Rolfe Voltaire



If it wasn't for spending seven hours on a yellow school bus designed for riders less than five feet tall, traveling out to Rensselaer Polytechnic Institute and back to Derry with 24 of my high school architecture and design students, it would have been a picture-perfect day for all of us. The scenery traveling across the rolling hills of New Hampshire and Vermont into upstate New York was absolutely breathtaking on a beautiful sunny and blustery November day. The campus of RPI with its beautiful buildings, green lawns, and colorful trees perched on a hillside overlooking the Hudson River was the "pot of gold at the end of the rainbow."

Upon our arrival, we were personally greeted by Dean Dougliis and Bruce Hamilton AIA at the Curtis R. Priem Experimental Media and Performing Arts Center (EMPAC), a state-of-the art multiple venue performance and research facility that melds the arts and

sciences. This is an impressive building and worth a trip to RPI to experience it firsthand. While being treated to pastries and juice, my students were given an extensive overview of RPI by Dean Dougliis, highlighting the school of architecture and its integration with the school of engineering to produce top-flight graduates. Within his audio-visual presentation, the Dean displayed a very diverse selection of RPI student projects and emphasized what each of my students could expect year by year during their five-year journey studying architecture at RPI.

Following the Dean's presentation, my students were broken up into two groups, each lead by two RPI upperclassman architecture students who couldn't have done a better job making my high school visitors more comfortable and informed about what it's like to be an architecture student. Each group visited several of the design studios in the Greene Building including a detailed look at the wood shop, the mold making lab, and the model



Pinkerton Academy instructor Rolfe Voltaire, far left, and 24 of his students outside an entrance to "The Egg" at RPI in Troy, New York. The students met with Dean Dougliis and viewed the architecture studios. Thanks to Bruce Hamilton AIA of AIANH's Education Outreach program for connecting with Dean Dougliis and RPI to make this event possible. And thanks to Pinkerton Academy for providing transportation and allowing the time for these students to make the trip.



Associate Dean of Architecture Mark Mistur talking about the model making process.

making lab complete with a large 3D printer and a massive laser cutter. My students were most impressed with the extensive collection of books in the architecture library and the fourth- and fifth-year student model building studios. Associate Dean of Architecture and Professor Mark Mistur was very gracious and informative as he explained to my students the various facets of designing and building models within the architecture program.

We finished our visit to the school of architecture with an in-depth behind the scene tour of the EMPAC building, including experiencing several completely silent rooms and theatres that have been acoustically designed to block out external sound distractions. Due

to a performance underway, we didn't have the opportunity to experience the inside of "the Egg," an eye-catching ovoid shaped performance theatre that accommodates 1,265 patrons and seems to float within a large glass enclosure. The theatre was designed to be as acoustically perfect a space as possible reflecting design and engineering at its very best.

When asked to tell me what each of my students took away from the trip, one student wrote that she "enjoyed visiting the studios, watching the architecture students working on their models, and having the opportunity to talk with several professors and to RPI students about their experiences

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RPF Environmental, Inc. has announced that Matthew Powers recently joined their staff. Mr. Powers will be working in business development providing sales support for industrial hygiene, indoor air quality, hazardous materials, mold and asbestos testing and consulting services throughout New England.

Mr. Powers received a B.S. from Southern New Hampshire University in business studies/marketing. He previously worked at a nationally recognized retail firm providing sales and customer support.

FLORENCE

Continued from page 7

spacious airy interior of this massive Franciscan basilica is a shock after the magnificent Neo-Gothic façade enlivened by varying shades of colored marble. Though most visitors come to see the tombs of Michelangelo, Galileo, and Ghiberti inside this basilica, it's the frescos by Giotto to the right of the altar that are the real highlights. The Arnulfo and Brunelleschi Cloisters provided our tour group with fine examples of Renaissance architectural precision and a moment of peace and tranquility during our tour.

As we continued our grand investigation of Florence, occasionally stopping along the way for a gelato, a cappuccino, or an aperitivo, we were won over by the vibrant, pedestrian friendly street life as we entered the neighboring Piazza della Signoria, Florence's most impressive square. In the heart of the city, dominated by city hall – the Palazzo Vecchio – and skimmed by one wing of the Uffizi Gallery, it is Florence's primary meeting place for both locals and tourists. The Piazza della Signoria is an open air sculpture museum with plenty of statues that remind visitors of Florence's glorious past. The most

famous statue on the Piazza is Michelangelo's David, one of the masterpieces of Renaissance sculptures. (This one is a replica; the original is in Florence's Accademia Gallery.) Other must-see sculptures include Baccio Bandinelli's Heracles and Cacus, the equestrian stature of Grand Duke Cosimo I, and at the center of the Piazza, the Neptune Fountain. According to our tour guide, several concerts and fairs are held in the Piazza della Signoria throughout the year.

At each turn through the magnificent streets of Florence we were presented with an exquisite and cherishing gem, from viewing some of the world's greatest Renaissance art to wandering around designer boutiques. The city's attractions bring its history as the birthplace of the Renaissance truly to life, and the city's squares or piazzas almost seethe with the past. Our tour group was able to experience firsthand the wonders of both art and architecture that inspired the people of the Renaissance period to recreate the civilization of ancient times. Our walk along the Arno River offered views that haven't changed much in 700 years. Florence's best sights are encompassed within such a compact area that the city seems to reveal its treasures at every step. Here the past merges with the present to a remarkable degree. ■

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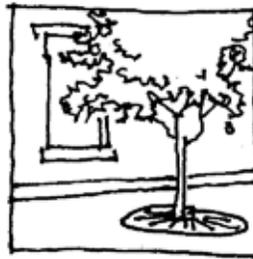


AIA+2030 SESSION VIII RECAP

Continued from page 9

the Bullitt Center, which opened in April of 2013. This six-story office building in Seattle, WA, provides 100% of its own energy needs utilizing on-site renewable energy sources. Daylighting 82% of the buildings floor plan area, using natural ventilation and rainwater harvesting techniques, employing a ground source coupled heat pump system for its radiant heat distribution system and a 242kw rooftop photovoltaic array, qualifies this building for a “net-zero energy” title. This building would never hope to attain this level of energy efficiency without employing a very early-in-the-design process with careful analysis, thoughtful design detailing, and deep programming review to insure low energy demands – something we should aspire to with all of our buildings.

I hope you all learned something new during this presentation. We thank you for participating. We also thank our sponsors for their support of this important educational series and their belief and dedication to sustainability. Platinum Sponsor: **Bensonwood**; Gold Sponsors: **Eckman Construction, Milestone Eng. & Construction Inc., ProCon, RPF Environmental, Martini Northern**; and Session VIII Silver Sponsor: **Belletetes Building Product Specialists**. ■



PINKERTON AT RPI

Continued from page 11

in the architecture program.” Those same sentiments were shared by the others as well. One student wrote saying that “it was eye-opening.” Another said that “the trip was definitely worthwhile and a memorable experience” adding that she “can imagine [herself] studying there.”

My students and I were all very thankful for the opportunity and appreciative of the time the staff and students at RPI took out of their day to accommodate their high school visitors from New Hampshire. I knew when we returned to school and each of the kids thanked me as they departed the bus that it was a successful and worthwhile trip.

Thank you to Bruce Hamilton AIA of Bruce Ronayne Hamilton Architects in New Ipswich, an RPI alumnus and past president of AIANH, and to Evan Douglass, the Dean of Architecture at Rensselaer Polytechnic Institute, for making our group tour of the school possible. Special thanks go to Pam Zepf and her office for planning the itinerary and managing the logistics for our half-day visit.

In closing, I’d be remiss if I didn’t thank the Center for Career and Technical Education here at Pinkerton Academy for funding the transportation out to New York. I’d like to offer special thanks to Eileen Goe, Angela Ashegh, and Tracy Untiet of the Pinkerton CTE office for their help managing the logistics and paperwork here at school and to Tom Donovan who made the trip with us serving as a second chaperone. Thank you to all, my students included. ■

— *Rolfe Voltaire is an instructor in the Architecture and Design program at Pinkerton Academy. He also serves on the Board of Directors of the New Hampshire Architecture Foundation.*

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Location: Durham, NH
Owner: University of NH
Architect: Manypenny Murphy Architecture
Const. Mgr.: Milestone Engineering &
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Project Type: Hartman Union Building
Renovation (Plymouth State University)
Cost: \$1,300,000
Location: Plymouth, NH
Owner: University of NH
Architect: SMRT, Portland, ME
Const. Mgr.: Allied Cook Construction
Management

Project Type: New YMCA (Former Old
Exeter Jr. High Site)
Location: Exeter, NH
Owner: Southern District YMCA
Architect: Bruce Ronayne Hamilton
Architects
Engineers: Altus Engineering Co.,
Environmental Design Engineering,
Summit Engineering
Gen. Cont.: Jewett Construction Co. Inc.

Project Type: Mast Landing Senior
Apartments (32 Units) (Phase I)
Location: Dover, NH
Owner: Housing Initiatives of New England
Architect: CWS Architects, Portland ME
Engineer: TF Moran
Const. Mgr.: Macmillin Co./DEW

Project Type: Kennebunk Savings
Bank & Drive Thru (Renovate
Existing Office Building)
Location: Newmarket, NH
Owner: Kennebunk Savings Bank
Architect: Michael Keane Architects
Gen. Cont.: Crow Construction Corp.

Project Type: New Ice Rink
Cost: \$8,000,000
Location: Keene, NH
Owner: Keene Ice
Architect: Daniel Scully Architects
Const. Mgr.: Macmillin Co./DEW

Project Type: Eastman Center
Cost: \$4,000,000
Location: Grantham, NH
Owner: Eastman Community
Architect: Warrenstreet Architects
Const. Mgr.: Milestone Engineering &
Construction

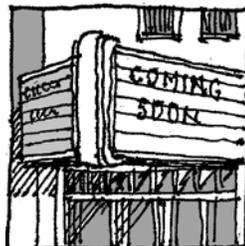
Project Type: Office Addition
Cost: \$136,330
Location: Concord, NH
Architect: Amoskeag Architectural Group LLC
Gen. Cont.: Schroeder Construction
Management

Project Type: Great Bay Kids Day Care Center
Location: Exeter, NH
Owner: Great Bay Kids Co.
Architect: Destefano Architects
Engineers: John Turner Consulting,
Dry Air Systems, TF Moran
Const. Mgr.: Martini Northern Inc.

Project Type: Ashley/Ashbrook Furniture
Building
Location: Manchester, NH
Architect: Landry Architects
Engineers: WV Engineer, TF Moran
Gen. Cont.: TRB Development

Project Type: Assisted Living & Memory
Care Facility (The Bridges At Nashua)
Location: Nashua, NH
Owner: Wynn Church Capital Limited
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Calendar of Events

Dec 11 **AIANH Fall Education Day**, Audubon Center, Concord, 8:30 am to 5:30 pm. Join us for AIANH's popular Education Day, just in time to earn more LUs by the end of the year! **Up to 7.5 AIA LUs available (5.5 HSW)**, www.aianh.org/news/aianh-events

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

Jan 23 **31st Annual AIANH Awards Celebration**. Join us for our Awards Gala at LaBelle Winery, Amherst, NH. Join us for what is always an enjoyable, entertaining evening! **Sponsored by Spaulding Brick Co. and Charron Lighting Inc.** Info and registration at www.aianh.org/news/aianh-events

Feb 1-3 **Getting to Zero National Forum**, Fairmont Hotel, Washington, DC. www.gettingtozeroforum.org

Feb 4-5 **BBD15: Trends in Cold Climate Construction**, Sheraton Conference Center, South Burlington, VT, Better Buildings by Design, www.encyvermont.com/for-our-partners/Better-Buildings-by-Design

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

Mar 3-5 **BuildingEnergy 15**, Seaport World Trade Center, Boston. Renewable energy and high performance building conference organized by NESEA. www.nesea.org/conference/buildingenergy-15

Mar 4-6 **AIA Grassroots** conference, Hyatt Regency on Capitol Hill, Washington, DC, www.aia.org/components/AIAB099932

Mar 12-13 **New York State Green Building Conference**, Holiday Inn Syracuse, Liverpool, NY, presented by State University of New York College of Environmental Science and Forestry and USGBC, www.esf.edu/greenbuilding

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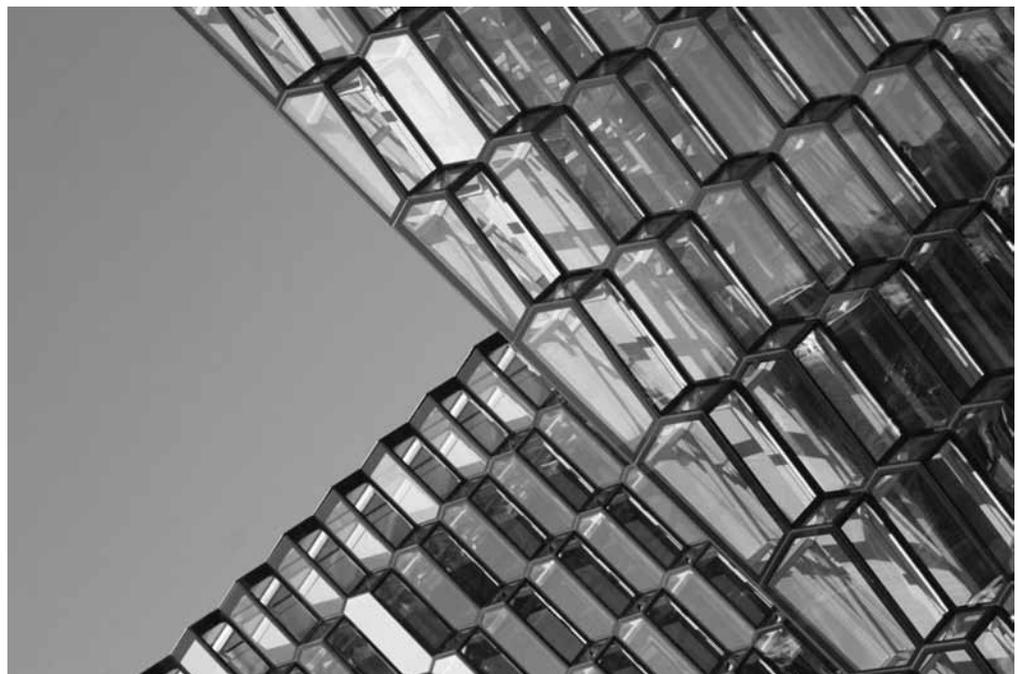


Photo by Rhiannon T. Laurie, Assoc. AIA

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