

NH FORUM

For those who shape the built environment

October Education Programs & Events



The fall season brings on a flurry of educational programs...we all seem to want to go back to school!

This year's autumn AIANH programs began September 15 with a tour of the Elliot Hospital's new ambulatory care center, River's Edge, in Manchester. **Armstrong Ceiling and Wall Systems** sponsored this very interesting event. Presenters were **Adam Wagner AIA** of Cube 3 Studios and **Tony Nigro** of Suffolk Construction. See photos on page 11.

By the time you get this, we'll also have already held our **October Education Day**, October 11, at the Audubon Center in Concord. It was well advertised by email (If you are not on our email list, please contact the office and request that you receive our event emails.) This day-long workshop was modeled after past Education Days. As with all AIANH programs, the cost was kept as low as we could and still cover our costs. Participants had the opportunity to earn up to

Continued on page 14



Over the summer we held a special event with the NH Furniture Masters at Canterbury Shaker Village. From left Furniture Masters David Lamb (presenter) and Garrett Hack; Jim Loft AIA, AIANH president; and Dale Doller, AIANH president-elect. The event was sponsored by Bentley Prince Street.

Published by

AIA New Hampshire

with contributions

from the Granite State

Landscape Architects

and PlanNH

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

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

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

Visit our Website at www.aianh.org

NH Forum

Perspective

Point of view from the president of AIANH



James Loft AIA
President 2011

To BIM or not to BIM, that is the question...

Back in 2009 when times were good, it seemed technology in the architectural world was on a roll. You couldn't pick up a magazine without finding some article extolling the power of managing a project through the BIM process. Architectural and construction firms alike were boasting how it facilitated the process, allowing more time for design; reduced change orders almost completely (although you never had a similar traditionally managed project to compare it to); helped clients better understand their proposed building by examining it in three dimensions. As the economy dipped, so did the hype. As things eventually start rebounding, I am betting we will see the hype pick up from where it left off.

I'm sure all of you have been exposed to some research regarding the power of BIM. One good starter reference report is by McGraw Hill – "The Business Value of BIM." I would suggest reading it to obtain an overview of where the industry is today. Here is a fun fact for you: half the industry is currently using BIM or BIM-related tools. I didn't actually believe this, but through some further reading

and after talking with firms in the southwest and the west coast, it appears there is a 56% adoption rate in the west and only 38% in the northeast. I'm guessing this difference is a result of New England frugality, because it does require a substantial investment in software and manpower training! Other benefits are: increased productivity and efficiency; reducing cycle time of specific workflows; offering new services to clients; marketing new business to new clients; improving productivity of personnel. Keep in mind these benefits relate to the entire design and construction process not just design.

The most important benefit is enabling the team to visualize the project through the three dimensional modeling: all the other benefits seem to follow this important first step. I at first undervalued this benefit because it seemed too obvious. As architects, we all do a pretty good job at visualization. As a matter of fact, we usually design with many mental images running through our minds, then spend the rest of the process translating those thoughts into two dimensional drawings so the rest of the team can bid and build the project. I think once the owner and the construction team can actually see the building there is "buy in" by everyone. Also we have found three-dimensional software helps keep our visualization alive. There is a tendency once you start converting a design into two dimensions to stop thinking in three dimensions (all of us have experienced that dreaded inside corner that the drawings never quite depicted).

Our firm has recently made the switch to
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Renew Your AIA Membership Now to Enter a Drawing for an iPad2

AIA members who renew their membership by December 31 will be entered into a drawing for a new iPad 2 and will receive a coupon code for one free CEU through AIA Virtual Convention that can be used by the end of January. Take advantage of this offer and maybe win a new iPad! Watch for your 2012 invoice coming soon by email.



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Young Architects Forum

by Nathan Stolarz AIA, AIANH Associate Director

Common ARE Questions:

Since finishing the AREs (Architect Registration Examinations) earlier this year I have been asked quite a few questions from coworkers and friends about the process. So I figured I would put together my top FAQ's to help everyone currently going through or thinking about taking the exams.

One of the most common questions I get asked is, what's the best order to take them in? Since NCARB doesn't require any particular order most people are left confused on which exam to study for first. The sequence I follow was: Construction Documents (CD) > Schematic Design (SD) > Structural Systems (SS) > Programming, Planning & Practice (PPP) > Site Planning (SP) > Building Systems (BS) > Building Design (BD). If I were to do it over again I would definitely group the exams differently. At the time I just wanted get the CD exam out of the way because I knew it was the one exam I had the

least knowledge about and if I could pass that one right out of the gate I knew I would be fine. Some people like to put the easier exams first to more familiar with the exams but I think it comes down to personal preference. If I were to do it over again I would defiantly group the exams differently. I would start off with the SD exam because is only a graphically exam it doesn't really relate to the other exams and it has a high passing percentage. Then I would recommend studying for PPP, SP and CD all at once and taking the exams two weeks apart from one another. The material between these three exams really crosses over quite a bit. Then the last group would be the bulk exams BS, SS & BD. These require the most study material and by this point you should be really familiar with the exams so studying the material should go quicker. Which are the best materials to use for studying? What I found out was that not one book had everything you needed to study, not even close. So I ended up using the entire Kaplan

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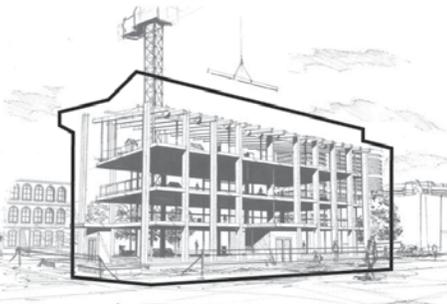


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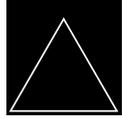
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Job Opportunities Positions Wanted

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

Play of Light Expresses Spirituality

Text and photos by Bruce Hamilton AIA



Ghosts and pirates are thick as the morning fog on certain days in New Orleans. As I open the 2011 AIA National Convention Catalogue at an outdoor café in the Viennx Carré, I find myself instead holding intense congress with the shadows between the huge leaves of the palm or fog above me. This morning, light filters its arabesques through the grille work of the balconies as I review the learning objectives for today's tour at the St. Jean Vianney Roman Catholic Church in Baton Rouge.

Built in 1998, it was designed by Trahan Architects using simple forms, materials and the play of light to express spirituality. Activating the worship space, light encourages the communal relationship as it creates a space without sense of boundaries extending beyond the physical restraints. The walls of windows actively invite nature into the sanctuary allowing nature to transform the space into new experiences. Light and nature actually function as design elements engaging the senses within the space. As the church doctrines require, with each new experience, the focus of the sanctuary remains worship that is stimulated by nature and liturgy.

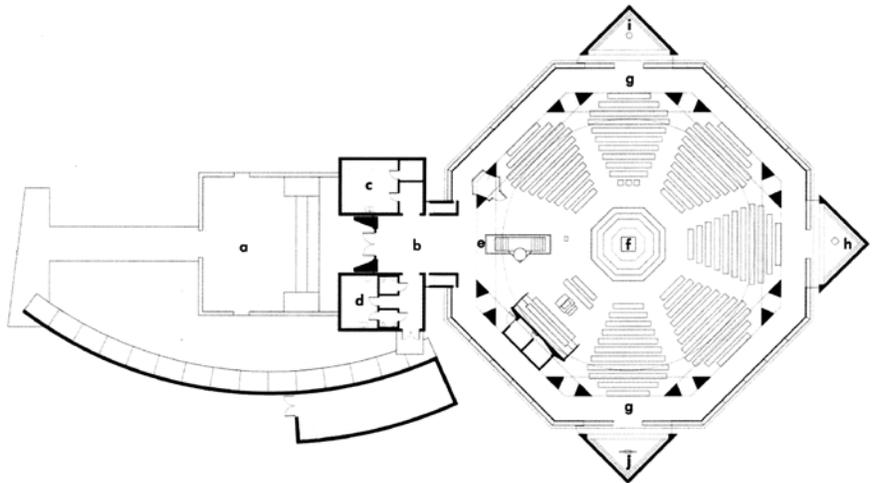
The same light gives strength to the transcendental worship within the sanctuary with the deliberate placement of apertures in the



Entrance to St. Jean Vianney

chapels and the oculus extending upward. The floor plan arrangement is centralized around the altar just as the pillars and beams around the edge of the space are splaying having a centralized focus. While the layers of architectural elements move out from the sanctuary proper, the elements also move the worshipper vertically through the space.

The ritual nature of the sanctuary directly responds to the church documents both through



floor plan

a plaza | b northex | c sacristy | d workroom | e baptismal font | f ambo |
g ambulatory | h chapel of the blessed sacrament | i chapel of the blessed mother | j chapel of the crucifix

0 14 32

the horizontal axis of the sacramental procession and the vertical axis beginning at the altar and rising through the oculus. Beginning with the natural procession through the courtyard to the grand entry portal, the worshipper crosses the threshold of the sanctuary, moves through the baptism and the word, celebrates the Eucharist around the altar and marvels at the mystery of the faith in the Chapel of the Blessed Sacrament.

A philosophy of simplicity in forms and materials exalts the integrity of the sacred space. Responding to the church documents, without excess ornamentation within the sanctuary, the central focus of the gathering experience

is preserved. Truthfulness of materials and honesty of expression of building processes further emphasize the sanctuary's spiritual nature. The materials used are authentic, pure and true without layers, facades or decoration. The concrete, glass, wood and steel neither provide artificial finishes nor promote idle distraction. Instead, the smooth off-white concrete actually affords a remarkable canvas allowing the participants in the liturgy to bring color to the celebration. The participants and nature, both exalted by the truest of materials, continue to keep the primary focus of design, the celebration of the liturgy by the community gathered. ■



Interior View of Sanctuary



Chapel of the Blessed Sacrament

Details...

As an increasing number of historic buildings in the state's capital face the wrecking ball, John S. Jordan Design and **Mark Carrier Construction, Inc.** have teamed up to renovate the West Concord School, built in 1862, into four unique condominiums.

Both companies specialize in the creative rehabilitation of historic buildings; their most recent project includes the Pandora Mill Building in Manchester, which was recognized with historic preservation awards from the Manchester Historic Association and the New Hampshire Preservation Alliance.

The West Concord School, located on Knight Street and nestled among wood-frame houses, is the only example of an Italianate civic building in West Concord. It is also the last surviving early schoolhouse in West Concord and the last link to one of Concord's early school districts, District No .3, which was absorbed into the Union District in 1900. The building housed various civic groups until the early 1990s, when it fell into disuse.

Today the two-story, 5,000-sf building is being brought back to its original grandeur, retaining its historic brick and granite exteriors, decorative woodwork, mansard roofs and arched window openings. While the refurbished exterior remains virtually identical to its original construction, the interior has been completely rebuilt to house four contemporary condos. Each two-bedroom unit has high ceilings, original hardwood floors, generously-sized windows, and state-of-the-art building services, including a complete fire sprinkler system. Each unit also boasts two dedicated on-site parking spaces as well as a generous storage space.

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GRANITE STATE LANDSCAPE ARCHITECTS

Sherbourne Common In Toronto

Park or Sewage Treatment? By Beth Dermody

We've heard about cities planning to create net zero developments with green roofs and water recycling systems. Now there is a wonderful example of that in Toronto, Canada named Sherbourne Common. I'm always interested to see what new ideas Toronto can teach us since they have a similar snowy climate to New Hampshire. Here is the article that tells all about it (08/17/2011 by asladirt, <http://dirt.asla.org>):

From here on, all major urban parks need to be like Sherbourne Common in Toronto, which not only provides a remarkable public space but also doubles as water treatment infrastructure. In a marvel of thoughtful design and engineering, the new 3.6-acre, \$30 million park commissioned by Waterfront Toronto and designed by a team led by landscape architecture firm Phillips Farevaag Smallerberg uses ultraviolet light to clean polluted water coming in from Lake Ontario. Given not-in-my-backyard (NIMBY) obstacles in cities are only expected to persist in the near term, these types of hybrid park-infrastructure projects make great sense, particularly given few communities can afford to build expensive, single-use "dumb" infrastructure. Many communities may

jump at the chance for a beautiful park that does so much more. IMBY please?

Lisa Rochon from The Globe and Mail argues that the park also represents a major change in how societies integrate natural systems into cities: "Nature no longer exists. New nature is what we cultivate in our cities. Today, the urban farmers are planners, landscape architects and clean-tech innovators who plot to remediate the toxins left behind by the city's industrialists. Historically, parks have been designed as picturesque snapshots – psychological escapes from urbanity."

In addition to zones that span from Lake Shore Boulevard to Queens Quay, and to the edge of Lake Ontario, there's a complex water treatment system that is central to the park design: "Water cleaned with UV light shimmers as it flows down chain-mail screens – held by curved nine-metre-high concrete arms – into raised pools that extend generously to Queens Quay. From there, the water gushes south into long troughs densely planted with native grasses selected for their ability to help clean water through bio-remediation. It then flows across the street toward Lake Ontario, nudging pedestrians to one side, before bursting above ground in spikes erupting from the splash pad." During winter, that "splash pad" will turn into a skating rink framed by "fantastically frozen fountains."

The Globe and Mail explains that the core functionality of the sewage-treatment facility is hidden from view though. Underneath the public bathrooms, there's "a series of disinfecting machines that use ultraviolet light – not the chlorine of yesteryear – to clean water from the lake and the run-off of surrounding roads, highways and buildings. In North America, where dirty water tainted with E. coli bacteria can be found flowing like nasty rivers into our lakes, this cleaning process is a rare phenomenon."

As for the park itself, the review is positive: "the tectonic detailing is superb: in the chic ipe wood and back-lit acrylic benches; in the custom recessed lighting on the ground; in the park pavilion's panels custom cut to fit custom curves." (Unfortunately, though, there's more of that unsustainable ipe hardwood [see earlier post on asladirt]).

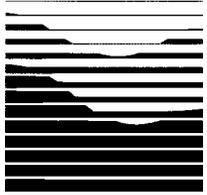
Light artist Jill Anholt's use of light to create an "eerie blue aura" helps create the sense that advanced technologies are at work, but

when visitors pass by a set of "watery veils," motion detectors briefly turn the lights green.

In total, the park is "like a chess set. It takes some time, and contemplation, before its rewards pay off (and more expository signage would be useful to reveal the underground masterworks invisible to the eye). Still, no matter the pummeling the city is getting these days by its own mayor, citizen expectation for invigorating, intelligent public parks will be aroused by the Common."

Overall, the city spent \$27 million Canadian to not only transform an "underused land" in the city, but also create a public asset that will provide a great return on investment through "enhanced tourism for Toronto, "invigorated neighborhood communities," and a "rebranding of the city as a place with an intelligent future." Along with the city's parks department, Waterfront Toronto, the innovative public program to transform the way the city connects with its waterfront and revitalize the city in the process, played a major role in ensuring "what might have been another pretty park has become a subtle intertwining of public art, architecture, landscape and sustainable infrastructure." Their imaginative, award-winning landscape architecture plans and projects, including the new Spadina Wavedeck and HtO park, and upcoming underpass park, have already helped set the model for what a city can do. More projects are underway: a total of 800 hectares are targeted for redevelopment over 25 years.

Public artist Jill Anholt created the "blue light monuments" and Toronto architect Stephen Teeple created the pavilions. Phillips Farevaag Smallerberg also brought in the Municipal Infrastructure Group Ltd. for the stormwater management systems, and Trojan Technologies for the ultraviolet water disinfection system. ■



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Notes from Plan NH

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

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

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

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Many businesses, including Plan NH, are going through a period of transition. It's all good. We are looking at our structure and our work and thinking about how we could be doing things differently, to meet the evolving needs of the organization, our members, our mission and the communities of our state.

To do so, we must break away from many traditional ways of thinking about how we operate as businesses and our assumptions behind the work that we do. We have found some interesting books that have helped shape new views for us and confirmed questions we have had for some time about how things "should" be done. Here are a couple that we return to again and again:

Linchpin: Are you indispensable? By Seth Godin (Portfolio/Penguin, 2010). To quote from the jacket: "This book is different. It's about you – your choices, your future, and your potential to make a huge difference in whatever field you choose... There used to be two teams in every workplace: management and labor. Now there's a third: the linchpins. These people invent, lead (regardless of title)... create order out of chaos. They figure out what to do when there's no rulebook.. They love their work, pour their best selves into it, and turn each day into a work of art." And Mr. Godin, in this book, opens the readers to ways of thinking about the world and powerfully convinces many that they, too, can be a linchpin. Very readable, very thought-provoking.

Community: The Structure of Belonging By Peter Block (SF: Berrett-Koehler, c2008). Mr. Block sees communities as being fragmented, with different aspects and components acting in silos. Individuals, too, feel disconnected from each other and from their communities. Although we know what flourishing communities may look like, we don't know how to get our own there. He contends that we need to get away from thinking of our communities as problems to be solved to being as sources of opportunity. The power of conversation

(and he describes six kinds) is at the root. This is another very readable and thought-provoking book that includes a discussion of the importance of how structures and space can be designed and used to create that sense of belonging.

We also highly recommend **Switch: How to Change Things When Change is Hard**, by Chip Heath and Dan Heath (NY: Broadway Books, c2010); **The Three Laws of Performance: Rewriting the Future of Your Organization and Your Life**, by Steve Zaffron and Dave Logan (Jossey-Bass, c2009); and, for now, **Drive: The Surprising Truth About What Motivates Us**, by Daniel Pink (NY: Riverhead Books, 2009). Ask for these at your local public library. ■

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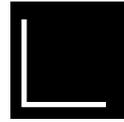
Details...

Cormack Construction Management announces the addition of **Richard G. Holt AIA** to their design staff. Mr. Holt earned his architectural degree from Carnegie Mellon University and has extensive experience in residential, commercial, and institutional design and construction. With a special interest in energy efficiency, his work has earned many awards, including a Solar Design Award from the U.S. Department of Housing and Urban Development. He has recently returned from California where his projects included the complete renovation of, and addition to, an iconic 165 room hotel, and the adaptive re-use of a former publishing facility by preserving the 44-year-old structure and creating a green-certified, high-tech collaborative work space.

Cormack Construction Management, Inc. uses a team-based approach that includes the owners and architect/designers as well as the project manager and building crew. "I have known Gordon Cormack since he began working in New Hampshire" says Holt. "As an architect, it has been a pleasure working with Cormack. Together, we have completed a number of highly successful projects. I look forward to the opportunities that lie ahead." For clients whose projects require the stamp of a licensed design professional, Cormack Construction Management now offers full architectural services.

Building on Hope Searches for Non-Profits in Need of Assistance

Community group seeks non-profit partner for major renovation project



Building on Hope, the community organization that rallied hundreds of New Hampshire businesses and residents to renovate an Easter Seals NH home for boys, is seeking applications from New Hampshire non-profits for significant building or renovation projects that will be considered for their 2012 Community Partnership Project. Non-profits are urged to download the RFP at www.BuildingOnHope.org and submit an application by October 14, 2011.

Created in 2009, Building on Hope is a community organization of volunteers who work with builders, architects and designers to provide physical improvements to facilities associated with non-profit service groups. Every two years, Building on Hope takes on a new challenge – organizing volunteers, collecting resources and focusing attention on a specific task to be completed over the course of a week in May with volunteer labor and donated goods.

On May 16, 2010 Building on Hope completed a \$250,000 renovation and dedication, a 1930's home in Manchester used by Easter Seals NH as a residential home for boys with special needs. Building on Hope was the recipient of a \$5,000 grant and wide recognition from The Pepsi Refresh Project, which awarded millions of dollars in grants to individuals, groups and other organizations for getting "inspired" ideas off the ground. Committee members were also featured in Parade Magazine, the most widely read magazine in the U.S.

"We were truly inspired by the generosity of hundreds of New Hampshire businesses and individuals who contributed their time, talent and resources towards the renovation of

our 2010 project," said Karen Van Der Beken, co-chair of Building on Hope and Senior Vice-President of Development and Communications at Easter Seals New Hampshire. "Dozens of businesses and volunteers have already expressed interest in participating in this year's project. Any non-profit community organization, camp, school, or religious entity in the state of New Hampshire may apply. However, priority will be given to projects within 20 miles of Manchester, NH. Projects must make a significant difference to their organization, to their community, and to the State at large. The non-profit will receive the support of the Building on Hope Committee, which will help organize the project, provide a toolkit of resources, and offer ongoing consultation.

The renovation must be completed in one week during May 2012, which was designated as "Building on Hope Month" in New Hampshire by Governor John Lynch. Planning for the renovation may take up to six months.

Building on Hope Committee members include: Co-Chairs: **Jonathan Halle AIA**, **Warrenstreet Architects** and Karen Van Der Beken, Easter Seals NH, Rick Broussard, New Hampshire Magazine; Emily Shakra, Nick Shakra Real Estate; E.J. Powers, Montagne Communications; Clark Van Der Beken, SilverTech; Melissa West, LKM Design; Lorrie Determann, LTD Company; Pam Patoine, Waterford Hotel Company; Grace Solinsky, June Vilas, and Greg Rehm, Liberty Hill Construction. **Karolina Burt AIA**, **The Architectural Studio** is the AIANH Board representative at the committee meetings.

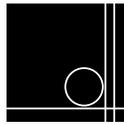
To learn more about Building on Hope please visit www.BuildingOnHope.org. Profits in Need of Assistance. ■

Share your Knowledge – Inspire a Student!

We are in need of volunteers for our successful Learning by Design Programs as well as school visits to high schools introducing the profession to students and critiquing their High School Design Competition projects. Please call the AIANH office, 357-2863.

Why is it So Hard to Understand the QBS Program?

by Richard Eustis, PE, FCSI, CCA, Maine QBS Facilitator, reprinted with permission from AIA Maine News, September 2011



Why is it so difficult to understand the basic issue of “Qualification Based Selection”? It appears to be a simple concept; compare the qualifications that are necessary for the project with the qualifications of those that want to provide the service and find the appropriate match. The match of desired qualification to available qualifications should result in the highest level of confidence in success, the best results and a most satisfied client.

In our other activities, this type of comparison is common place. If we need surgery, we search for someone that we believe is well qualified. If we need an attorney, we look for someone with the right qualifications to meet our needs. Even if we are just looking for someone to service our lawnmower, we match what we need with the available services. We would never go to “Jiffy Lube” to change the oil in our walk-behind power mover.

Possibly the reason it is so difficult to convey the value of QBS to public owners is that some owners do not understand they are acquiring a Professional Service and that acquiring a service is much different than purchasing a commodity or a very well defined service. Most public entities have well-defined purchasing practices that are easy to follow when buying heating oil, paper for the photocopier or road salt. These purchasing practices do not work when one is acquiring Professional Services, especially where creativity or the study of alternatives is required.

If a lack of understanding about the services that are provided by a design professional is a factor in failure of a public entity to select the QBS Process, then we have an educational issue to address. Those of us that provide design services or have years of experience acquiring design services, may not appreciate this knowledge gap. We may be so close to the forest that our view is blocked by the trees.

In my early days working with building committees in the selection of design professionals, we used to spend at least one hour prior to the interview process discussing the role and responsibilities of the project design-

er. At times it was very surprising how little well-educated people knew about the services that were expected to be provided by a design professional, or how the design professional was expected to interact with the committee or the larger community.

Qualification Based Selection of design professionals is a well tested method that has a long history of success. It has been almost 40 years since the Federal Government passed the Brooks Act that first established legal requirements to use QBS. Even with this long history, many still do not understand why this is important because they may not understand the services that are required to convert a “good idea” into an operating facility. ■

For information on the NH QBS Program, visit www.nhqbs.org. For information on the Maine QBS Program, visit www.meqbs.org. To contact the author, email eustis@infionline.net.

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NH Furniture
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BENTLEY PRINCE STREET

LOFT, Cont'd from page 2

Revit. It required a substantial investment in software and hardware and has a learning curve of eight months to a year. Of course this has increased our documentation time and is affecting overall profitability. Before we invested in Revit, we had to ask ourselves the tough questions regarding what three dimensional software and eventually BIM will do for our process.

Some at our company pondered whether we will ever go back to a two dimensional process. That answer is obviously "no." I think we are on the threshold of a whole new era in the design and construction industry (not unlike switching from hand drafting to CAD) and are only scratching the surface of what the new modeling can do for the industry. I would imagine that computer models will eventually function like living models, providing in-depth energy and sustainable related analyses. A good example of the model affecting the process is the mechanical contractor using the model as a shop drawing, prefabricating duct

cuts and bar coding them for their location, which saves time and reduces construction waste and energy.

With the increasing demands on architects, engineers and the construction industry to provide excellent design, energy efficient buildings, follow LEED or similar requirements and keep within the project budget and schedule, I believe the BIM process will be the only way to effectively address all these requirements.

So, let us learn together and trade insight along the way. We can start by attending two upcoming programs on BIM: the November Chapter Meeting, featuring JSA's BIM experience and insight and the October 25 "BIM: Emerging Legal Issues: Looking Back and Moving Forward" presented by Donovan Hatem, JSA Inc., AIANH, ABC NH/VT, and the UNH Office of Design and Construction at UNH. (See our calendar for more information on these programs). I look forward to seeing you there! ■



Terry Moore (left) and David Lamb (right), in Carriage Barn doorway, led our tour of the NH Furniture Masters' exhibit at Canterbury Shaker Village on August 18.



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Above: The "Penthouse" and left, Stairway, at River's Edge, the Elliot Hospital's Ambulatory Care Center in Manchester, NH. The Center is located on the eastern bank of the Merrimack River in southern Manchester, on the site of the former Jac-Pac / Tyson Foods meat processing plant. Cleaning up the designated Brownfield site set the project on the path to LEED certification before construction even began. The Elliot at River's Edge is one of the first facilities in the country to seek certification under LEED for Healthcare.

**Thank you to
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Architect's Cookbook

AIA Connecticut is offering *The Architect's Cookbook* to its AIA New England friends. They are justly proud of this wonderful collection of recipes from their members and want to share it with everyone.

AIAC has received rave reviews, not only for the recipes, but also for the architectural design of the pages and the wonderful line drawings that incorporate food and buildings rolled into one. A syndicated radio show on NPR recently featured *The Architect's Cookbook* during its weekly programming.

They make great Christmas gifts!

The cookbook retails for \$29.95 but AIAC is extending the member price of \$21.95 to all AIA members.

Here's a link to the order form on the AIAC website: www.aiact.org/aiadocuments/catalogue.php?docType=other



The Architect's Cookbook, published by AIAC

photo: Amy Vischio, Moffly Media

Details...

North Branch Construction has completed the Southern New Hampshire University Operations Center and Storage Shed on North River Road in Hooksett. This building will serve as a central hub for the University's Building and Grounds Department.

Teaming with **Udelsman Associates**, North Branch designed and built the new 37,521-sf pre-engineered steel building featuring office space in the front and a warehouse in the back. The warehouse includes an equipment storage mezzanine with a 3,000 pound vertical lift.

Despite the tough 2011 winter, North Branch was able to complete the building several weeks ahead of the contract schedule, allowing Southern New Hampshire University to begin using the building before their big summer crunch. A month after the completion of the Operations Center, North Branch finished the pole barn construction of a separate 4,700-sf, three-bay shed located in the rear of the site. The University will use this shed to house sand, salt, vehicles, and equipment.

Fulcrum Associates, Inc. has broken ground for a new 12,000-sf professional office building at 124 Bedford Center Rd. in Bedford, NH. The new building is located in the Historic District of Bedford just West of the town center. The multi-gabled building is designed with a blend of vinyl shingle and clapboard siding and classic New England style trim detailing. The new building will provide spaces for four individual tenants. A second free standing 2,100-sf "out" building is scheduled to be constructed on the site to provide a fifth professional office space for an individual user.

Dignard Architectural Service provided design services and Meridian Land Services provided civil engineering services for the project.

YAC Cont'd from p. 3

(minus the Structural Section) series and Ballast Review Manual. They each were easy reads so I wasn't too worried at the extra time spent looking over these materials, but a big warning when it comes to the Structural exam; you don't even need to crack open the Kaplan book. It's riddled with mistakes and information that is unnecessary for these exams. Your best bet is to find another source. I used PREP ARE by Marc A. Mitalski, P.E., S.E. and it made the material easy to understand and when I took my exam I breezed right through it. It cost a bit of money but why risk failing and having to take the exam

again. I also used the Archiflash flashcards by Nalsa publishing. These flashcards were very helpful to go through and see what information I retained from the reading and what I needed to study more of. It's also easy to carry these around so anytime I had a moment of down time I would pull these out and study until I memorize every single card. Now preparing for the graphic vignettes you only need one source, Understanding the Graphic Vignettes of the Architect Registration Exam by Prof. Norman Dorf, AIA. Get this material any way you can, I don't know how I would have passed the vignettes without it. Don't even bother looking at Kaplan's or Ballast's



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material, again that are riddled with errors, omissions and will give you failing solutions. The last and most important source is the areforum.org . This website will give you access to everything you need for materials and also give you the opportunity to ask questions and post your vignettes for peer reviews. Again as with Dorf material not taking advantage of this resource will only hinder your chances of passing the exams.

Lastly the question everyone wants to know, How long does it take to complete them all? This is a loaded question and truly depends on the person and how focused or sometimes how unfocused they are. For me I set out a plan of action that was moderately aggressive. I managed to finish all the exams in 9 months but I have also known people to finish them in fewer than 6 but most people seem to take at least over a year to complete them all. My advice is make the time and schedule a test before you start studying. So many times people continually put off taking the next exam because of one excuse after the next. Don't make excuses. They say they'll schedule the test when they're ready to take it, but then where is the pressure to study? Look at your project schedule; be systematic about what day you take it (Monday afternoons worked best

Share your Knowledge – Inspire a Student!

We are in need of volunteers for our successful Learning by Design Programs, as well as for high school visits to introduce the profession and critique students' High School Design Competition projects. Please call the AIANH office, 357-2863.

for me) and how many weekends you'll give yourself to study. Generally I tried to keep to a 4 week schedule of studying. Though some exams were a week shorter and some were 1-2 weeks longer. Also to keep your sanity make sure to fit some time off, a week or so, between exams. But not too much time. You want to keep that groove going or you will not want to start studying for them again.

It all can be a bit daunting at first to sort through all the resources on the AREforum and get either the Kaplan or Ballast books or everything else ready for studying for the AREs. Take a few weeks to gather the information and make a plan of action. Life will get in the way too so remember to take it in stride. And stick to your plan! And lastly if you have questions or would like any help feel free to contact me.

If you are interested in submitting ideas for future programs, have thoughts about the future of the profession as a young architect, liked to be added to the email list or would like to get involved, we'd love to hear from you. Emails directed to nathanstolarz@ho-mail.com. ■

Details...

Dennis Mires, P.A., The Architects announces the recent completion of the new 45,000 sf facility for the YMCA of Greater Nashua. The building includes an aquatics center with an Olympic size six lane pool and recreation pool with a splash area, a double Helix waterslide and other water toys, as well as sauna and steam rooms off of the pool deck. Also included are a full size gymnasium, running/walking track, wellness center, two multi-use wood floor studios, kid stop, multi-use rooms for kids of all ages, families and seniors, and men, women, and family locker rooms, An outdoor playground is accessible from two of the rooms for kids. The two storey facility has the ability to expand in the future. **Harvey Construction Corp. of NH,** was the Construction Manager.

They have also announced the recent completion of the Manchester Housing and Redevelopment Authority's phased construction project for elderly housing with supportive services, known as Laurette Sweeney Apartments. The site included a Knights of Columbus Hall, which was demolished at the end of Phase I. Phase I included a new 1,500sf hall for the relocated Knights, as well as an 800 sf kitchen that will be utilized by Knights of Columbus and MHRA at different times. The new facility includes 31 units of senior housing and 1,200 sf dining room, parking is also provided for 65 cars, completed in Phase 2. Phase 2 extended the building westerly to include another 30 units of housing. Eckman Construction Co. was the General Contractor for both phases.

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Cont'd from p. 1

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- Solar Hot Water and Heating Systems
- The Four Barriers of the Building Envelope
- Green Roofs in New England, with a LEED Building on a Budget Case Study.

Watch for more Education Days in the future!

Coming up soon!

On **October 20**, we are very excited to be holding our third consecutive annual **joint meeting with AIA Vermont**. This year we are touring the new **Class of 1978 Life Sciences Center at Dartmouth College**.

This building was designed by Bolin Cywinski Jackson to be a national model of sustainable design, expected to consume one-half of the energy of the best-performing laboratories currently in use in the United States. At 174,500 square feet, the facility has spaces devoted to undergraduate- and graduate-level teaching and research, including classrooms, teaching laboratories, and faculty laboratories, and offices for the department of biology.

The evening will include:

- A brief history of high performance building at Dartmouth led by **John Scherding AIA**, Director of Campus Design; **Ken Packard PE**, Director of Engineering and Utilities; and **Bo Petersson**, Director of Engineering Services, Cornerstone Commissioning.

- An overview of the design process for the life Sciences building – including sustainability concepts and also the laboratory planning concepts that make this building a wonderful facility for research,

- A building tour,
- Sponsor exhibits, and a
- Reception.

Thanks to our sponsors for this event: **Yusen Associates and Lutron; Thermotech;** and **TOTO USA;** and our Exhibitors: **Burt Process Equipment, Alfieri Proctor Associates (APA) and Phoenix Controls, Charron Inc.,** and **National Fiber.** Each Sponsor and Exhibitor will have a display at the meeting. Plan to arrive at 4:45 for a snack and to talk with our sponsors while you register. The event starts promptly at 5:30 and will be followed by a catered reception and cash bar in

the building lobby. Come find out about this state-of-the-art building and visit with your peers from across the river! Register online at www.ainh.org/aia_events.asp.

On **October 23** the Yale Club of New Hampshire is inviting AIANH members and friends to a special presentation by Turner Brooks, a professor at the Yale School of Architecture and principal of Turner Brooks Architects, with a reception to follow. 3-5 pm. \$15 per person. See location and rsvp details on the back page Calendar.

Lastly, a really useful program will be presented on **October 25 — BIM: Emerging Legal Issues – Looking Back and Moving Forward** — in DeMeritt Hall, Room 240, on the UNH campus, from 5:30-7 pm.

Building Information Modeling (BIM) is fast becoming the industry standard method for architects and engineers to design buildings and prepare documents. It comes with promises of significant benefits to designers, as well as builders and owners. But the transition from 2-D drafting to 3-D modeling is changing some long-established assumptions and protocols in the building industry, creating a host of new legal issues for all parties – and the courts are just starting to hear some of the cases.

The presentation will examine the past and the future use of BIM, and the risk allocation that is necessary for projects that utilize it. It will identify real legal concerns relating to BIM, and separate them from the “noise”. It will discuss the importance of having a “BIM plan” that addresses the levels of development for the BIM model for each design consultant. Finally, it will review standard BIM Agreements that are now available.

The featured Presenter is **Sue E. Yoakum Esq., AIA**, Counsel, Donovan & Hatem LLP, and panelists include: **Phil Bernstein FAIA**, Vice President Autodesk; **Douglas Bencks AIA**, University of New Hampshire; and **Greg Boehner, P.E., LEED AP**, Interstate Electric.

Presented by Donovan Hatem and hosted by JSA Inc., AIANH, Donovan and Hatem, ABC NH/VT, and the UNH Office of Design and Construction, this program offers 1.5 AIA CEUs. Register through JSA, Inc., 603-436-2551 or BIM@jsainc.com.

Watch for another BIM workshop at our November Chapter Meeting, Nov. 8, at Pease Country Club. Register online at www.ainh.org/aia_events.asp ■

Construction Summary

Project Type: Community Center Renovations

Cost: \$168,175

Location: Peterborough, NH

Owner: Town of Peterborough

Architect: Richard Monahan Architects

Contractor: Torphy Construction & Development LLC

Project Type: Group 1 Lexus Automobile Dealership

Location: Bedford, NH

Owner: Group 1 Automotive Inc

Architect: Curtis Architectural Group

Engineers: TF Moran, Building Engineering Resources, Flood Consulting

Gen. Contractor: Advantage Construction

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

Project Type: Homeless Veterans Housing (Laurel Keys Home)

Location: Manchester, NH

Owner: The Way Home

Architect: Amoskeag Architectural Group LLC

Const. Mgr.: Amoskeag Architectural Grp LLC

Project Type: Medical Office Building (Phase I)

Location: Bedford, NH

Owner: The Anagnost Companies

Architect: Lavallee/Brensinger PA

Engineers: TF Moran, Foley Buhl Roberts & Associates

Const. Mgr.: AW Rose Construction LLC

Project Type: (4)Building Residence

Location: Hillsboro, NH

Owner: Naomi Payne

Architect: Gardenia Victoria LLC, Baltimore, MD

Gen. Contractor: Kelly Construction Co.

Details...

The new 103,000-sf Dartmouth-Hitchcock outpatient facility on Heater Road in Lebanon, NH is one of the first implementation projects to result from a 2010 Master Plan completed by **Lavallee Brensinger Architects**. With a goal of capturing valuable acute care space within the Dartmouth-Hitchcock Medical Center, outpatient services will be relocated to this new building, which is designed for maximum efficiency and flexibility. The building is currently in construction and scheduled to open late summer 2012.

Following the completion of an AIANH-award-winning, state-of-the-art laboratory, manufacturing, and office space for IDEXX Laboratories of Westbrook, ME, Lavallee Brensinger Architects is finishing design for the next phase of this campus expansion project. IDEXX's mission for the 200,000-sf headquarters is to provide a new model for a flexible work environment that promotes collaboration and employee wellness. Work spaces will be open and adaptable, offering employees options for teaming or working individually. Wellness and healthy food service will be integrated into daily worklife.

Lavallee Brensinger Architects has also been working closely with the Laconia School District and Building Committee to evaluate site and expansion options for the Huot Technical Center. After thorough consideration of alternative sites, the Technical Center will remain adjoined to Laconia High School and undergo a 2-story, 33,500-sf addition and 26,000-sf renovation. The new space includes state-of-the-art high-tech labs supporting Multi-Media, Health Sciences, Business, and Information Technology curriculums as well as a Culinary Arts program complete with a full service restaurant. Renovated areas include labs for Building Trades, Engineering, Manufacturing and Automotive curriculums. In addition to modernizing the Technical Center's programs, the project seeks to enhance the existing high school by giving back 18,500 square feet of space currently occupied by the Technical Center, and site improvements including sports fields and parking.

Sketch of the Month



The Colisium, Rome
by Scott Vlasak AIA, Bruce Ronayne Hamilton Architects

Submit your Sketch/Painting/Drawing for publication! Please scan your work at 300 ppi and send to office@aianh.org. Include a caption with it! We look forward to seeing your work – take the time for art!

Calendar of Events

Oct 11 AIANH Continuing Education Day, Audubon Center, Concord, NH – A full day of educational programs; Up to 6.5 AIA CEUs available, including HSW and SD, www.aianh.org/aia_events.asp

Oct 14-16 AIA New England Annual Conference, "Livable Communities in the American Landscape," in Northampton, MA, hosted by AIA Western MA. The conference will include workshops, speakers, tours, the AIANE Design Awards & keynote dinner. *Up to 10 AIA HSW/SD CEUs.* www.wmaia.org/

Oct 16 Disaster Assistance Training Workshop. This workshop follows the AIANE Conference but can be attended separately. The program reviews the role played by U.S. federal / state governments, and architects, in the aftermath of a disaster. The intensive training certifies design professionals through California's EMA Safety Assessment Program, *6 AIA HSW CEUs,* www.wmaia.org/continuinged.html

Oct 20 AIANH - AIAVT Joint Chapter Meeting, Life Sciences Center, Dartmouth College: Tour and presentation of the new science center designed by Bohlin Cywinski Jackson. *2 AIA HSW/SD CEUs,* www.aianh.org/aia_events.asp. **Sponsors: Yusen Associates and Lutron, TOTO USA, Inc., Thermotech. Exhibitors: Burt Process Equipment, Alfieri Proctor Associates (APA) and Phoenix Controls, Charron Inc., National Fiber**

Oct 21-22 Plan NH Design Charrette, Plaistow, www.plannh.com/charrettes.php

Oct 23 Professor Turner Brooks from Yale School of Architecture and Turner Brooks Architects speaks at Dartmouth College, Haldeman Center, on the corner of Webster Avenue and North Main Street, reception to follow. 3-5 pm. \$15 per person. Send check, made out to Yale Club of New Hampshire, to: Al Shamash, 33 Union Street, Concord, NH 03301. Sponsored by the Yale Club of New Hampshire.

Oct 25 BIM: Emerging Legal Issues – Looking Back and Moving Forward, DeMeritt Hall, Room 240, UNH campus, 5:30-7 pm. Presented by Donovan Hatem and hosted by JSA Inc., AIANH, Donovan and Hatem, ABC NH/VT, and the UNH Office of Design and Construction. Register through JSA, Inc., 603-436-2551 or info@jsainc.com. *1.5 AIA CEUs,* www.aianh.org/aia_events.asp

Nov 4-5 Plan NH Design Charrette Stratham, www.plannh.com/charrettes.php

Nov 8 AIANH Chapter Meeting: Working with BIM, Pease Country Club, Portsmouth, NH, *AIA CEUs,* www.aianh.org/aia_events.asp

Nov 10 USGBC NH Gala, Residence Inn, Portsmouth, www.usgbcnh.org

Nov 16-18 Build Boston, Seaport World Trade Center, Boston. www.buildboston.com

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Photo of the Month



**Morning mist on the Charles Bridge, Prague, Czech Republic
by Philip L. Laird AIA, President, ARC/ Architectural Resources Cambridge**

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